

RESOLUTION No. 48 - 2018

Moved by: Shawnie J. Davis

A Resolution appointing Dr. Christine M. Proctor to serve on the Environmental Advisory Council (EAC).

WHEREAS, pursuant to Ordinance No. 6-2018, the Environmental Advisory Council ("EAC") was reorganized in order to better carry out the mission of providing information and a forum for discussing environmental issues impacting the City of Harrisburg; and

WHEREAS, pursuant to Section 2-509.2 of the Codified Ordinances of the City of Harrisburg, the EAC shall be comprised of (7) seven volunteer members, of which three (3) are appointed by the Mayor and four (4) are appointed by City Council; and

WHEREAS, EAC members must be residents of the City of Harrisburg; and

WHEREAS, EAC members are appointed to serve a term of three years unless otherwise removed; and

WHEREAS, Dr. Proctor has been nominated as one of the City Council appointments to the EAC; and

WHEREAS, Dr. Proctor is a resident of the City of Harrisburg; and

WHEREAS, Dr. Proctor's qualifications to serve on the EAC have been carefully reviewed and considered by City Council. A redacted copy of Dr. Proctor's resume is attached and incorporated as "Exhibit A;" and

WHEREAS, Dr. Proctor earned her Bachelor of Science (B.S.) degree in Fisheries and Wildlife from Virginia Tech; her Master's of Science (M.S.) degree in Biology from Towson University; and her Doctor of Philosophy (Ph.D.) degree in Fish and Wildlife Conservation from Virginia Tech; and

WHEREAS, Dr. Proctor has an extensive history of researching and teaching environmental, wildlife and conservation issues; and

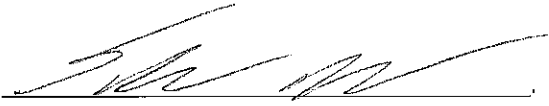
WHEREAS, Dr. Proctor is currently an Assistant Professor of Environmental Science at Harrisburg University of Science and Technology; and

WHEREAS, Dr. Proctor is actively engaged in research projects regarding environmental issues, including the project entitled, "Mapping the Composition and Characteristics of Acid Mine Drainage in Swatara Creek;" and

WHEREAS, Dr. Proctor has co-authored a number of articles and reports regarding wildlife and conservation; and

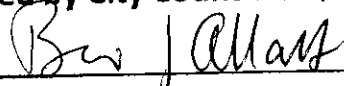
WHEREAS, Dr. Proctor has participated as a member of professional and community service organizations, including the Chambersburg Institutional Review Committee, the "Suits to Careers" Annual Gala Committee, and the Franklin Science Council.

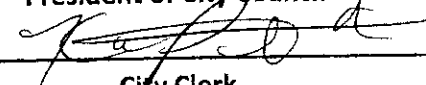
NOW, THEREFORE, BE IT AND IT IS HEREBY RESOLVED BY THE COUNCIL OF THE CITY OF HARRISBURG, that Dr. Christine M. Proctor is appointed to the Environmental Advisory Council for a term expiring on September 25, 2021.

I second this resolution 

YEAS		NAYS
	MR. ALLATT	
	MS. DANIELS	
	MS. GREEN	
	MR. JOHNSON	
	MR. MADSEN	
	MR. MAJORS	
	MS. WILLIAMS	excused
Yeas	5	
Nays	0	

Passed by City Council September 25, 2018


 Vice-President of City Council

Attest 
 City Clerk

- Approved
- Returned to City Council with objections

Exhibit "A"

Christine M Proctor | Assistant Professor of Environmental Science

[REDACTED] | cproctor@harrisburgu.edu

Objective

As a Harrisburg City resident, I would like to give back by serving on the City of Harrisburg's Environmental Advisory Council. I look forward to applying my experience in natural resource management and geographic information systems to work with the city's Sustainability Coordinator in advising the Harrisburg City Council on matters pertaining to sustainability and the environment.

Statement of Interest

It is when science meets public interest and policy that you can affect the most change. I am committed to bridging the gap between science and policy through public service as evidenced in my past and current work. Through my research projects, education, and employment, I have gained valuable experience in conservation planning within a multitude of settings and across many cultures. I have had the opportunity to work on collaborative projects involving many agencies, organizations, stakeholders, and community groups. Additionally, my experience as an educator in both formal and informal settings has provided me with the skills necessary to communicate scientific findings to wide array of audiences.

Current Research

Mapping the Composition and Characteristics of Acid Mine Drainage in Swatara Creek

This project seeks to examine the Acid Mine Drainage (AMD) known to exist throughout the Swatara Creek, specifically in the Upper Swatara Creek watershed. Swatara Creek flows in a southwest direction through Schuylkill, Lebanon and Dauphin Counties of PA to its confluence with the Susquehanna River, the largest tributary of the Chesapeake Bay. Data will include high resolution chemical analysis of water samples, soil chemistry analysis, habitat assessment, and quantification of biological diversity at site above and below stream of mitigation efforts. The results will drive further site management decisions.

Novel Methods to Assess the Population Status of a Federally Threatened Reptile, the Eastern Massasauga Rattlesnake (*Sistrurus c. catenatus*)

Building on the interdisciplinary strengths of Harrisburg University's faculty and students, we are partnering with Pennsylvania Department of Natural Resources' Jennings Environmental Education Center to 1) analyze the first and only long-term eastern massasauga data set in existence to assess population trends and survivorship and 2) develop new methodologies to increase detection of these rare and cryptic snakes. The results from this study will help both the State of Pennsylvania and the US Fish and Wildlife Service to make more informed policy and management decisions as well as increase the efficiency of future monitoring efforts throughout the snake's range.

Related Work Experience

Harrisburg University of Science and Technology - Assistant Professor of Environmental Science 12/2016 - present Supervisor: Dr. Bilita Mattes

At Harrisburg University, I am working with an external advisory board of local stakeholders to reshape the Environmental Science and Renewable Energies undergraduate program. The new program will provide student education through partnerships with state and local governments, providing real world applied environment planning experiences.

Wilson College - Assistant Professor of Biology

5/2015 - 12/2016

Supervisor: Dr. M. Dana Harriger

At Wilson College, I was responsible for teaching Ecology, Conservation Biology, and a non-majors Biology course.

Harrisburg University of Science and Technology - Corporate Faculty

6/2014 - 8/2016

Supervisors: Albert Sarvis, PMP, GSIP and Dr. Catherine Santai

Developed and taught a junior level introductory remote sensing course for the Geospatial Technology program for the fall semesters and instructed a required general education science class for all majors spring semesters. Additional duties included the development of a more rigorous general education science course for science majors, including a pre-requisite method of evaluation.

Pennsylvania Game Commission - Game Lands Management Tool Coordinator

5/2013 - 5/2015

Supervisor: Dr. Benjamin Jones

Coordinated the development of an online spatial tool and associated spatial database for use by land managers in developing comprehensive habitat plans to improve habitat management for federal and state listed threatened and endangered species on state game lands. This required coordinating with various state and federal agencies to draft best management practices for each species addressed by the tool and supervision of two wildlife biologists.

The Wildlife Society - Policy Intern

1/2013 - 5/2013

Supervisor: Laura Bies

Wrote and posted content for Wildlife Policy New, an online wildlife policy news site, developed wildlife fact sheets and action letters, represented The Wildlife Society at various coalition meetings, attended relevant congressional hearings, helped to identify and reach out to appropriate congressional resource and appropriation committee members, and other duties to assist the Director and Deputy Director of Government Affairs and Partnerships at The Wildlife Society.

Virginia Tech Department of Fish and Wildlife Conservation - Doctoral Research

1/2009 - 5/2016

Supervisors: Drs. Marcella Kelly & Michael Vaughan

Analyzed GPS collar data, remote camera data, and habitat data to determine home range size, habitat use, and movement patterns of red wolves (*Canis rufus*) and black bears (*Ursus americanus*) in northeastern North Carolina to model the impact of a highway-widening project. Additionally, multi-species road kill survey data were collected along a 12-mile section of highway that ran through the northern portion of Alligator River National Wildlife Refuge. All data collected determined the placement of mitigating structures to improve road safety.

Smithsonian Conservation Biology Institute - GIS Technician

1/2007 - 1/2009

Supervisor: Dr. Peter Leimgruber

Downloaded and processed Asian elephant locations and movement data transmitted via satellite collars. Additional responsibilities included organizing and teaching GIS courses to wildlife professionals, ordering supplies, and other basic lab management duties.

Maryland Department of Natural Resources - Forester

9/2002 - 8/2004

Supervisor: Robert Northrop

Completed a forest patch prioritization model for the Carroll County portions of the Gunpowder and Patapsco watersheds using high-resolution digital data in a GIS/Spatial Analyst model in order to guide management plans to improve water quality and quantity.

Baltimore City Reservoir Natural Resources Office - Pollution Control Analyst

11/2002 - 4/2004

Supervisor: Eugene Scarpula

Hired to implement the long-term forest management plan I worked on for Baltimore City while I was employed by Maryland Department of Natural Resources. Additional duties included collecting water samples, monitoring white-tailed deer forest damage plots, estimating deer populations via distance sampling, monitoring stream quality via macro-invertebrate sampling and salamander sampling.

Maryland Department of Natural Resources - Forester

2/2001 - 9/2002 Supervisor: Robert Northrop

Helped to develop a comprehensive forest management plan for Baltimore City's reservoirs. Specific projects I have worked on include designing an interior forest road survey using GPS, collecting forest regeneration data, and completing a stream habitat assessment. The data collected was used to develop a management plan to improve water quality and quantity for Baltimore City's three drinking water reservoirs.

The Seton Keough High School - Teacher

6/1998 - 6/2000 Supervisor: Anna Conti-Vóch

Taught high school level biology, ecology, and geology. Served as faculty advisor to the school's Environmental Club and organized yearly Earth Day events. Related skills included: teaching; organizational skills; and making scientific information accessible to a non-science audience.

Virginia Tech Department of Fish and Wildlife Science - Field Technician

5/1997 - 8/1997 Supervisor: Dr. Carola Haas

Conducted nest searches for ground nesting birds using a variety of methods including chain dragging and monitoring behavior, measured nestlings, completed point counts, collected data on habitat variables such as common plant species, vegetation height, and vegetation density, collected insect samples, and participated in the data entry.

Virginia Tech Department of Fish and Wildlife Conservation - Undergraduate Research

5/1996 - 5/1997 Supervisor: Dr. Michael Vaughan

Compared the movements of radio collared black bears in Craig and Giles Counties of Virginia while under the pursuit of trained hunting dogs to their movements while the chase and hunting seasons were closed.

Cooperative Allegheny Bear Study - Field Technician

1/1995 - 9/1996 Supervisor: Dr. Michael Vaughan

Collected data during the 1995 and 1996 Virginia bear chase seasons; helped to set and check Aldrich leg snares, anesthetize using jab-sticks and a ketamine/xylazine drug combination, ear tag, tattoo, draw blood, remove first premolar, and take body measurements of trapped black bears in the Blacksburg based study area. Additionally, I located bears in the study area via radio telemetry and used GPS to obtain the location of trap sites and telemetry stations.

Education

Virginia Tech	Fish and Wildlife Conservation	PhD	2016
Towson University	Biology	MS	2010
Virginia Tech	Fisheries and Wildlife	BS	1997

Related Publications

- Northrop R, Duce CM. 2003. A Comprehensive Forest Conservation Plan for Long-Term Watershed Protection on the City of Baltimore's Reservoirs. Report Number: RNRS-2003-02. 36 pp.
- Vaughan MR, Kelly MJ, Proctor CM, Trent JA. 2011. Evaluating potential effects of widening US Highway 64 on red wolves in Washington, Tyrrell, and Dare Counties, North Carolina. Final Report. VT-NCDOT Contract No. 09-0776-10. 55pp.
- Wulsch C, Trent JA, Proctor CM, Kelly MJ, Vaughan MR. 2012. Wildlife Crossing Structure for Medium to Large-Sized Mammals: A Literature Review. Final Report. VT-NCDOT. 27 pp.
- Dellinger JA, Proctor CM, Steury TD, Kelly MJ, Vaughan MR. 2013. Habitat use of a large carnivore, the Red Wolf, in a human-dominated landscape. *Biological Conservation* 157: 324 - 330.
- Hinton JW, Proctor CM, Kelly MJ, van Manen FT, Vaughan MR, and Chamberlain MJ. 2016. Space Use and Habitat Selection by Resident and Transient Red Wolves (*Canis rufus*). *PLoS ONE* 11(2).

Served as Reviewer for the Following Journals

Biotropica
Journal of Ecology and the Natural Environment
Biological Conservation

Honors

2012 US Forest Service Chief's Scholar Finalist
2013 Outstanding Teaching Assistant
2013 Recipient of the Burd S McGinnes Fellowship, recognizing excellence in wildlife education and outreach
2014 Recognized as Graduate Student of the Year by the Fisheries and Wildlife Graduate Student Association

Professional and Community Service

Member - Franklin Science Council - 9/2017 to present
Member - Annual Gala Committee - Suits to Careers - 2/2017 - 12/2017
Member - Chambersburg Institutional Review Committee - 5/2015 - 12/2015
Graduate Student Liaison and Speaker Chair - Virginia Tech Student Chapter of The Wildlife Society - 8/2011 - present
Orientation Chair - Fisheries and Wildlife Graduate Student Association - 8/2010 - 5/2013
President - Fisheries and Wildlife Graduate Student Association - 8/2009 - 8/2010

INTER

OFFICE

MEMO

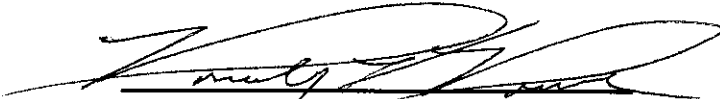
To: HARRISBURG CITY COUNCIL
From: Kirk Petroski, City Clerk
LEGISLATIVE APPROVAL FORM

Date:

LEGISLATIVE APPROVAL FORM/CERTIFICATE OF ACCEPTANCE

BILL NO. 48-2018 RESOLUTION NO. -2018

THE ABOVE LISTED ITEM WAS WRITTEN AND PREPARED FOR FINAL INTRODUCTION AT THE HARRISBURG CITY SOLICITOR'S OFFICE ON:



Deputy City Solicitor

9/21/2018
Date

Requested by Department/Bureau: City Council

Department/Bureau Contact Person: Ben Allett

For Action on or before:

The attached was received in the Office of the City Clerk for introduction on
9/25/18

Received by: Chanda [Signature]

Date: 9/21/18