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GREG "RUDI" RUDOLPH
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SPENCER ROGERS
CO- VICE CHAIR

ROBERT OUTTEN
CO-VICE CHAIR

JOHN BRODMAN

JETT FEREBEE

JOHNNY MARTIN

BETH MIDGETT

J. MICHAEL MOORE

DAVID MOYE

Kris Noble

KATHLEEN RIELY

TODD ROESSLER

FRANK RUSH

DEBBIE SMITH

DAVE WEAVER

LEE WYNNS

NC COASTAL RESOURCES ADVISORY COUNCIL

July 11, 2017
Holiday Inn
Greenville, NC

10:00	CALL TO ORDER* (Director's Room) • Roll Call • Announcements • Approval of April 26, 2017 Meeting Minutes	Greg Rudolph, Chair
10:10	CRAC NOMINATIONS AND TOP ISSUES (Memorandum attached)	Greg Rudolph, Chair
10:20	SPATIAL PLANNING & AVAILABILITY FOR ENERGY, INDUSTRIAL, AND MANUFACTURING DEVELOPMENT IN N.C.	John Brodman
11:15	OLD/NEW BUSINESS	Greg Rudolph, Chair
11:30	ADJOURN	

NC Coastal Resources Advisory Council
April 26, 2017
Dare County Government Center
Manteo, NC
Meeting Summary

Attendance

Greg “rudi” Rudolph (Chair)	Spencer Rogers (Co-Vice Chair)
Bobby Outten (Co-Vice Chair)	Beth Midgett
David Moye	Debbie Smith
Dave Weaver	

Call to Order

Rudi Rudolph called the meeting to order with 7 members in attendance and the minutes were approved unanimously.

CRAC Guidance Document

Rudi Rudolph began discussing the revised Guidance Document provided by DCM staff and the Council approved the document for review, comment, and revisions as needed by the CRC.

Beach Bulldozing Permitting and Methodology

Spencer Rogers explained that some property owners are bulldozing nourished beach sand for their personal benefit and sand mining of nourished beaches is not being conducted at the community level. The Council began discussing this issue, several comments were made including that no beach bulldozing by property owners should be allowed unless a house is imminently threatened. Spencer Rogers made a motion to recommend to the CRC that there are problems with the beach bulldozing rules and for the CRC consider methods to prevent beach sand mining by private property owners. This motion was seconded by Dave Weaver and the motion was approved unanimously.

Old/New Business

The Council discussed the development line rules and its recent performance. Spencer Rogers made a motion to request the CRC to take a second look at the development line performance in the locations that have already been approved. The motion was approved.

Adjourn

With no further business the Council adjourned and joined the CRC meeting.

North Carolina Coastal Resources Advisory Council



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Memorandum

From: Greg "rudi" Rudolph

Date: June 26, 2017

Re: **CRAC Nominations and Top Issues**

Pursuant to discussions regarding CRAC organizational issues and our resulting CRAC Handbook; we also disseminated an open letter to local governments in mid-April requesting; **(1)** A wish list of their top coastal issues that need to be addressed (regulations and/or policy orientated), and **(2)** Nominations for the four vacancies existing on our 20-member Council. With respect to CRAC nominations, we also agreed there was a need for non-oceanfront CAMA County representation – the CRAC, CRC, and NCDCM have been oceanfront-centric the past several years for a host of reasons and innocently has led to a dearth of non-oceanfront representation on the CRAC. Again, this should be envisioned as more of a guide when considering CRAC nominations – not an absolute.

To these effects, attached is our open letter and all written responses (11 total) – a summary list of all nominations and "top issues" are presented below. Also included are nominations that have been passed along to me orally.

NOMINATIONS	
Name	By
Harvey M. (Skip) Lee	Town of Bayboro
Seth M. Laughlin	Beaufort County
Nancy White, Ph.D.	Town of Nags Head
Ann Keyes	Washington County
Candy Bohmert	Pamlico County
George E. Taylor, Jr., Ph.D.	City of Elizabeth City
Frank V. Tursi	Town of Swansboro
David Kellam	Figure Eight Homeowners' Association
Dallas O. Blackiston	City of New Bern

Suggested Action: I'm thankful and pleased with the list of nominations we received by local governments – very high caliber individuals. The CRAC should review the nominations and be ready to select and agree upon four individuals at our meeting on July 11th for the CRC to subsequently consider for appointment.

TOP ISSUES	
P	Streamline residential & commercial waterfront development permitting.
I	
e	Ease permitting and assist in debris removal along waterways and drainage ditches – by mechanical means and/or dredging.
a	
s	Protect active farmland from wetland banking.
e	
	Increase funding programs for public waterfront access.
s	
	Sustained funding to treat the invasive waterweed, the <i>Hydrilla</i> .
e	
	Storm water drainage – canals and ditches.
n	
d	Beach Nourishment.
	Septic tank impacts.
y	
o	Removal of condemned houses from oceanfront.
u	
	Sand relocation.
r	
	Dune management – integrity of dune.
n	
	Offshore sand resources – using existing data and coordination.
o	
	Erosion control structures along open oceanfront.
m	
i	Effectiveness of waterway buffers.
n	
	Insurance rates based on sea-level rise.
a	
t	Public water access.
	Public waterway access.
	Funding for Land Use Plan Updates and more State coordination/assistance.
	Terminal Groin permitting – approval needs to be quicker.
	Necessity and efficacy of CAMA permit adjacent landowner notification.
	Oceanfront cantilevers should be reviewed.
	CAMA rules are vague, not self-explanatory, and difficult to navigate.
	Review of sand bags & geotubes.
	Policy on sand placement landward of frontal dune needs to be reviewed.
	Allow wider, public-finger docks to provide more handicap access.
	Cape sand exempted from sediment criteria is questionable - should be reviewed.
	Impacts of trawling restrictions in Secondary Nursery Areas related to beaches.

S

Suggested Action: I will present this “top issues” list to the full CRC along with our recommended nominations for the CRAC on July 12th. In the interim, it would be very beneficial for the CRAC to review the attached prior to our meeting to ascertain the full context of each issue presented by local governments. At some point we will need to prioritize these issues and constrain which issues are appropriate for the CRAC, CRC, and NDCM staff to address. While I don't expect us to fully develop a prioritization process at our July 11th meeting, we should at least discuss the issues and broach prioritization. I believe we need to be keen to those issues that were mentioned most often by different local governments.

North Carolina Coastal Resources Advisory Council



GREG "RUDI" RUDOLPH
CHAIRMAN

SPENCER ROGERS
Co- VICE CHAIR

ROBERT OUTTEN
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JOHN BODMAN

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DEBBIE SMITH

DAVE WEAVER

LEE WYNNIS

April 19, 2017

Dear Coastal Local Government,

The Coastal Resources Advisory Council (CRAC) works with the Governor and General Assembly appointed Coastal Resources Commission (CRC) to balance and foster the protection and wise development of the State's coastal resources through both planning and regulation. Recent changes codified in State Statutes modified our membership requirements from a total of 45 with discrete geography and expertise requirements to 20 members that are now essentially "at-large". The Statutes also provide more of a "blank canvas" with respect to our role serving the CRC and the Department of Environmental Quality, and how we can aid in the administration of the Coastal Area Management Act (CAMA) in terms of policy and rule-making. To these ends, the CRAC and CRC recently had lengthy discussions on our collective path forward and are respectfully requesting your input related to two important items;

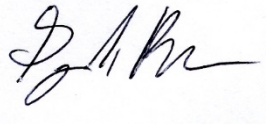
- (1) **Wish List** – What are your local community's two (or more) top coastal issues the CRAC/CRC may be of assistance in coordination with the administrative staff at the N.C. Division of Coastal Management (DCM)? While regulations and permitting are the backbone of the Coastal Management Program, the CRAC and CRC wants to be proactive with respect to your more policy-centric issues.
- (2) **CRAC Nominations** - CAMA itself per §113A-101 is a Cooperative State-local program – *"This Article establishes a cooperative program of coastal area management between local and State governments. Local government shall have the initiative for planning. State government shall establish areas of environmental concern. With regard to planning, State government shall act primarily in a supportive standard-setting and review capacity, except where local governments do not elect to exercise their initiative."*

At the present there are 16 CRAC members, leaving us with **4 vacancies**. 7 of the 16 CRAC members are active local government officials (employed or elected) and in the spirit of CAMA, and because local governments are tasked with implementing and enforcing CRC/DCM policies; we are generally looking to fill the 4 vacancies with local government representatives, or individuals recommended by local governments. Moreover, for the past few years the CRC has been more involved with rules and policies that are more oceanfront related and the CRAC membership has followed this trend as well. To provide more of a balance on the CRAC, we are looking for more inner banks/coastal plain representatives – the same can be said for the wish list requested above. With this background in mind, we encourage your political body to provide a nomination for the CRAC – the CRC considers and ultimately appoints CRAC members.

Division of Coastal Management
Department of Environmental Quality
400 Commerce Ave., Morehead City, North Carolina 28557
Phone 252-808-2808 FAX 919-733-1495

Please send your nominations for CRAC membership (including resume or supporting documentation) and top coastal issues of concern by email to Angela.Willis@ncdenr.gov, or by mail to NC Division of Coastal Management, 400 Commerce Ave., Morehead City, NC 28557. If you have any questions or require additional information, then please do not hesitate to contact Mike Lopazanski, Acting Assistant Director for DCM at 252-808-2808 (ext. 223); mike.lopezanski@ncdenr.gov, or myself directly below. Thank you for your consideration of this correspondence and we look forward to your input.

Respectfully,

A handwritten signature in black ink, appearing to read 'G. Rudolph', is centered below the text 'Respectfully,'.

Greg "rudi" Rudolph, CRAC Chair
Carteret County Shore Protection Office
www.protectthebeach.com
grudolph@carteretcountync.gov
P.O. Box 4297
Emerald Isle, N.C. 28594
252 222-5835
252 241-3264 (cell)

Willis, Angela

From: Town of Bayboro <townofbayboro@gmail.com>
Sent: Thursday, June 08, 2017 9:31 AM
To: Willis, Angela
Subject: CRAC Nomination

During the Bayboro Town Council meeting of June 6, 2017, the council nominated and approved Harvey M. (Skip) Lee as it's CRAC member. Skip is the Pamlico County Chief Building Inspector, CAMA LPO and serves as Zoning Administrator and CAMA/LPO for Bayboro.

Thank you,

--

Joan Spain Leary
Town Clerk/Finance Officer
Town of Bayboro
PO Box 519
301 Main Street
Bayboro, NC 28515
252-745-4238 Phone
252-745-6030 Fax

BOARD OF COMMISSIONERS

Frankie Waters, Chairman
Jerry Langley, Vice-Chairman
Ed Booth
Gary L. Brinn
Ronald Buzzeo
Jerry Evans
Hood Richardson

**COUNTY OFFICIALS**

Brian M. Alligood, County Manager
Katie Mosher, Clerk to the Board
Anita C. Radcliffe, Finance Director
David Francisco, County Attorney

**BEAUFORT COUNTY
NORTH CAROLINA**

Mr. Greg Rudolph, CRAC Chair
Carteret County Shore Protection Office
P.O. Box 4297
Emerald Isle, N.C. 28594

RE: CRAC Member Nomination

Dear Mr. Rudolph:

Please let this document serve as Beaufort County Government's response to your letter dated April 19, 2017 requesting a "wish list" of top coastal issues of concern and local nominations for CRAC membership. I presented your letter as an agenda item for decision before the Beaufort County Board of Commissioners at their June 12, 2017 regular meeting. For the Board's consideration, I presented several coastal issues of concern, as well as volunteering personally to represent Beaufort County as a nominee for CRAC membership. The Board voted unanimously to approve the proposed wish list items and my nomination. Please find enclosed a copy the resolution adopted by the Beaufort County Board of Commissioners dated June 12, 2017. Per your letter, I am also enclosing a copy of my resume.

The majority of my life has been spent in small coastal towns east of Highway 17 including Edenton, Elizabeth City, Kill Devil Hills and now Washington Park. Coastal development policies have guided the communities where I was raised and where my wife and I are now raising our two young children. For this reason, it is a great honor for me to be nominated for CRAC membership and to have an opportunity to represent Beaufort County on this very important commission.

Please feel free to contact me anytime.

Sincerely,

A handwritten signature in dark ink, appearing to read "Seth Maxwell Laughlin".

Seth Maxwell Laughlin, Director of Planning
Beaufort County Government

Cc: Brian Alligood, Beaufort County Manager



**Monday, June 12, 2017, 5:30 PM
Regular Monthly Meeting**

**NORTH CAROLINA
BEAUFORT COUNTY**

Coastal Resources Advisory Council Recommended Appointment

Planning Department

On a motion by Commissioner Brinn, seconded by Commissioner Evans, the Board voted unanimously to approve the following nomination for CRAC membership and top coastal issues of concern per requests made by Mr. Greg Rudolph, Chair of the Coastal Resources Advisory Council in his letter dated April 19, 2017:

- 1) Beaufort County Coastal Issues "Wish List"
 - Streamline permitting processes related to residential and commercial waterfront development
 - Ease permitting for maintenance (dredging/mechanized debris removal) of existing drainage ways in hazard mitigation of low-lying areas
 - Protection of active farmland from wetland banking
 - Increase funding programs for public waterfront access
- 2) CRAC Nomination
 - Seth Laughlin, Beaufort County Planning Director

**NORTH CAROLINA
BEAUFORT COUNTY**

I, Kathleen Mosher, Clerk to the Board of County Commissioners, do hereby certify that the above is a true and verified copy of a resolution adopted by the Beaufort County Board of Commissioners in regular session on Monday, June 12, 2017.


Kathleen Mosher, CMC, NCCCC
Clerk to the Board of County Commissioners

Seth M. Laughlin

100 Hickort Street
Washington Park, NC 27889
(252) 902-4842
seth.laughlin@co.beaufort.nc.us

EXPERIENCE

9/2014 – Present Beaufort County Government Washington, NC

Planning Director

- Manage development review throughout Beaufort County via the Adopted Code of Ordinances: Subdivision, Manufactured Housing, Stormwater, and Solar Farm ordinances
- County Liason for Special Projects including:
 - NC WRC Boating Access Areas
 - Land purchases via CAMA Public Beach and Coastal Waterfront Access grants
 - Redevelopment of County-owned properties
 - No Wake Zone rules
- Supervisor to Building Inspections and Land Records staff
- Manage Tar/Pamlico Nutrient Management Program
- Manage County-wide hurricane debris removal program
- Manage road signage program

2006 – 2014 City of Greenville Planning Division Greenville, NC

Planner II – Historic Preservation and Neighborhood Liaison/Community Ombudsman

- Planning staff liaison to Historic Preservation Commission (HPC) and Neighborhood Advisory Board (NAB)
- Prepare case meeting materials and present monthly at televised HPC, Greenville City Council meetings as needed.
- Coordinate and administer Facade Improvement Grant program (city funded) for Downtown Commercial Historic District revitalization

Planner II - Non-Residential Rezoning and Annexation Planner

- Prepare case meeting materials including legal advertisements, property owner notices, ordinances, findings, reports and draft agendas
- Prepare and make case presentations to Planning & Zoning Commission and City Council (televised), and neighborhood association meetings

Planner II - Zoning Compliance Administrator

- Primary staff support to the Board of Adjustment (BOA):
- Permit review for all: single family and duplex residential construction, on-premise signs, privilege licenses, and alcohol sales licenses
- Enforcement of permit-dependant zoning requirements

8/2004 Pitt County Planning Department Greenville, NC
Planner I – Subdivision Administrator

- Managed the subdivision approval process including the review by the Technical Review Committee and Pitt County Planning Board (televised)
- Enforced stormwater and sedimentation/soil erosion control ordinances

7/2003 Craven County Planning Department New Bern, NC
Planner I

- Reviewed and presented subdivision and mobile home park plans for approval by Craven County Planning Board
- Acted as Craven County CAMA Local Permitting Officer for NC Division of Coastal Management.

EDUCATION

2003 East Carolina University Greenville, NC
■ Bachelor of Science in Urban and Regional Planning, concentration in Coastal Planning and Development. Minor in Geology
■ PAB accredited

2000 Sandhills Community College Pinehurst, NC
■ Associate in Applied Science in Landscape Gardening
■ Required semester-long internship conducted with the Thomas Jefferson Memorial Foundation at Monticello

1992 Manteo High School Manteo, NC

CIVIC ACTIVITIES

- Member: Rotary Club of Washington (noon club)
- Member: Town of Washington Park Planning Board (Current term)
- Member: East Carolina University Urban Planning Program Advisory Board (Current term), Department of Geography, Planning and Environment
- NC Division of Marine Fisheries Oyster Shell Recycling Program volunteer:
- Uptown Greenville (nonprofit) volunteer: Member of Promotions and Design Committees for downtown revitalization. Participate in planning and conducting outdoor festivals and markets (Freeboot Friday, Umbrella Market, and Pirate Fest)
- Alumni Advisor: Phi Kappa Tau Fraternity, East Carolina University

REFERENCES

Bryant Buck

- Executive Director, Mid East Commission
- Office phone: 252-974-1844

Travis Stephenson

- Pitt Electric, Chief Excecutive Officer
- Office phone: 919-669-5053

Mark Garner

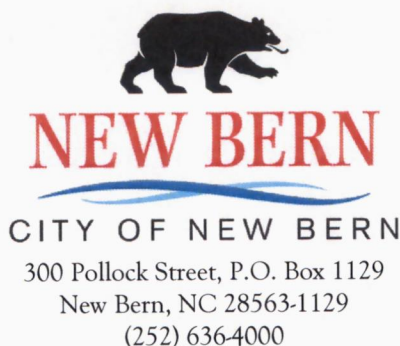
- Rivers and Associates, Vice President
- Office phone: 252-752-4135

Merrill Flood

- Assistant City Manager, City of Greenville, NC
- Cell phone: 252-258-6362

Aldermen

Dallas O. Blackiston
Victor J. Taylor
E. T. Mitchell
Johnnie Ray Kinsey
Bernard W. White
Jeffrey T. Odham



Dana E. Outlaw
Mayor

Mark A. Stephens
City Manager

June 28, 2017

Rudi Rudolph, Chairman
Coastal Resources Advisory Council
PO Box 4297
Emerald Isle, NC 28594

Dear Mr. Rudolph:

I am the Alderman for New Bern's First Ward. Accordingly, I represent the interests of our downtown businesses and waterfront on the Neuse and Trent rivers. I am submitting my name to fill a vacant seat on your Council. I have attached my biography which covers a lot of docks and piers around the world.

As a longstanding resident of New Bern, career Marine officer and pilot, and also having worked as a construction consultant, I am cognizant of the tremendous growth that has taken place in eastern North Carolina. Our waterways and ocean frontage have provided us with many opportunities. As you well know, that history of growth and development has provided immeasurable benefits while also presenting us with challenges for the future.

I would like to provide representation and a voice for both New Bern and Craven County on your Council. If you feel I would be an asset and contributor to the CRAC's role and responsibilities, I would be delighted to serve.

Thank you for your consideration.

Sincerely,



DALLAS O. BLACKISTON
First Ward

Enclosures

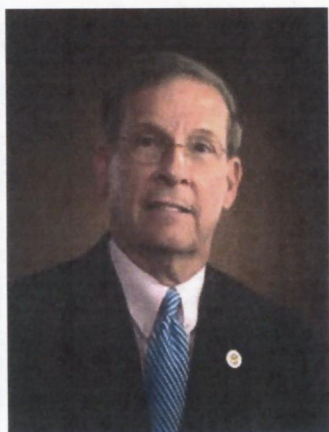
Alderman Dallas O. Blackiston

In December 2013, Alderman Blackiston began serving his first term as Alderman for the City of New Bern's First Ward. Additionally, he has been selected to serve as Mayor Pro-Tem for the 2016 calendar year. A New Bern resident and homeowner for over 30 years, Mr. Blackiston was born in South Carolina and grew up on the eastern seaboard as well as overseas. He holds a Bachelor of Arts degree from the University of South Carolina and an MBA from the University of South Florida. As a member of the Naval ROTC, he attended Army Jump School and upon graduation was commissioned as a Second Lieutenant in the United States Marine Corps.



His assignments included infantry Platoon Commander, Executive Officer and rifle Company Commander with the 1st and 9th Marine Regiments. He later received orders to Flight School, completed training and was designated a UH-1N helicopter pilot in 1979. Follow-on duties included operations, safety and planning positions at squadron and wing levels as well as US Central Command, where he worked on the joint force deployment schedule for operation "Desert Storm." His career included amphibious deployments and overseas contingency operations, as well as disaster recovery operations in 1991 after the eruption of Mount Pinatubo in the Republic of the Philippines.

Prior to his assignment as the Community Plans Officer at Cherry Point, he was the Deputy for Inspections, Office of the Inspector General at Headquarters Marine Corps, where he coordinated worldwide quality assurance command visits. During his final tour of duty at MCAS Cherry Point, Lieutenant Colonel Blackiston served as the military liaison for multiple counties and worked on community development issues with a number of civic and business councils. He is a graduate of both Leadership Craven and Leadership North Carolina and has served on a number of educational and civic boards.



Over the past 14 years, Mr. Blackiston has worked as an engineering project consultant overseeing major runway and taxiway expansions, as well as infrastructure improvement projects at airports in eastern North Carolina that serve both general and commercial aviation needs. In 2009, as President of the New Bern Preservation Foundation, he began a successful effort to rehabilitate New Bern's "Union Station" Depot. On a personal level, he has rehabilitated and preserved a number of homes in New Bern's Riverside Historic District.

Mr. Blackiston is married to the former Denise Moreau of Glen Burnie, Maryland. He remains an advocate for historic preservation, community redevelopment, and innovative educational programs as well as a supporter of animal protection.

*"As a small town with a big heart and a wonderful heritage,
New Bern will continue making history as a community full of charm, character and opportunity."*

Willis, Angela

From: John A. Mitchener III <johnmitchener@live.com>
Sent: Wednesday, May 31, 2017 11:57 AM
To: Willis, Angela
Cc: John Mitchener
Subject: Re: COASTAL LOCAL GOVERNMENT Letter from CRAC Chair Rudi Rudolph - Responses Due by JUNE 14, 2017

Angela Willis,

We need sustained funding from the state of North Carolina to treat hydrilla comprehensively. Best chemicals are expensive. Copper sulfate while cheaper is time consuming to apply and re-apply..

This issue is a wild card in local budgets. And since the bright boys and girls from NC State tell us that it came our way on the Chowan River from Jordan Lake and other sources in the Piedmont, State government should fund the control and eradication of this plant which destroys food for fish and diminishes river-side property values.

If I can help you otherwise please let me know.

Best wishes..... John Mitchener 05/31/2017
Chowan County

From: Willis, Angela <angela.willis@ncdenr.gov>
Sent: Wednesday, May 31, 2017 10:57 AM
To: Howard, Kevin B; Bryant, Elizabeth A; Smith, Jeffrey A.; Greg Bonner; Ellis Lawrence; John Mitchener; Kersey, Patti; Faircloth, Don; Cummings, Ron; Knighton, Anne-Marie; BARROW, SAM; Scott Sauer; Traci White; Bertie County Commissioners; Robert Outten; Donna; woodard@darenc.com; Wally (wallyo@darenc.com); DBOC@darenc.com; jshea@darenc.com; margarette.umphlett@darenc.com; steve.house@darenc.com; 'dannyc@darenc.com'; 'clayton@townofduck.com'; 'jheard@townofduck.com'; 'don.kingston@townofduck.com'; 'monica.thibodeau@townofduck.com'; 'jon.britt@townofduck.com'; 'chuck.burdick@townofduck.com'; 'nancy.caviness@townofduck.com'; 'manager@southernshores-nc.gov'; 'whaskett@southernshores-nc.gov'; 'tbennett@southernshores-nc.gov'; 'fnewberry@southernshores-nc.gov'; 'lholland@southernshores-nc.gov'; 'cnason@southernshores-nc.gov'; 'gmcdonald@southernshores-nc.gov'; 'andy.stewart@kittyhawktown.net'; 'rob.testerman@kittyhawktown.net'; 'gperry@kittyhawktown.net'; 'cgarriss@kittyhawktown.net'; 'lynne.mcclean@kittyhawktown.net'; 'jpruitt@kittyhawktown.net'; 'debbie@kdhnc.com'; 'meredith@kdhnc.com'; 'sdavies@kdhnc.com'; 'mhogan@kdhnc.com'; 'travis@kdhnc.com'; 'michael@kdhnc.com'; 'brheubottom@kdhnc.com'; 'cliff.ogburn@nagsheadnc.gov'; 'andy.garman@nagsheadnc.gov'; 'bob.edwards@nagsheadnc.gov'; 'susie.walters@nagsheadnc.gov'; 'renee.cahoon@nagsheadnc.gov'; 'marvin.demers@nagsheadnc.gov'; 'john.ratzenberger@nagsheadnc.gov'; 'skinner@townofmanteo.com'; 'daniels@townofmanteo.com'; 'collins@townofmanteo.com'; 'burke.r@townofmanteo.com'; 'fry@townofmanteo.com'; 'peelee@townofmanteo.com'; 'walker@townofmanteo.com'; 'wickre.m@townofmanteo.com'; 'dan.scanlon@currituckcountync.gov'; 'ben.woody@currituckcountync.gov'; 'Bobby.Hanig@CurrituckCountyNC.gov'; 'Mike.Hall@CurrituckCountyNC.gov'; 'Mary.Etheridge@CurrituckCountyNC.gov'; 'Bob.White@CurrituckCountyNC.gov'; 'Mike.Payment@CurrituckCountyNC.gov'; 'Paul.Beaumont@CurrituckCountyNC.gov'; 'Marion.Gilbert@CurrituckCountyNC.gov'; 'mbrillhart@camdencountync.gov'; 'dporter@camdencountync.gov'; 'criggs@camdencountync.gov'; 'tomwhite@camdencountync.gov'; 'gmeiggs@camdencountync.gov'; 'rkrainiak@camdencountync.gov'; 'rmunro@camdencountync.gov'; 'bunchr@co.pasquotank.nc.us'; 'coxs@co.pasquotank.nc.us'; 'cecillc@embarqmail.com'; 'wmsterritt@roadrunner.com'; 'legriffin111@gmail.com'; 'jsrw2@embarqmail.com'; 'jeff.dixon@citybeverageco.com'; 'albemarlebuilders@usa.com';



Town of Columbia

"A Heart's Delight" founded in 1793

103 Main Street • P.O. Box 361
Columbia, NC 27925
252.796.2781 (P) • 252.796.0082 (F)

RECEIVED

MAY 24 2017

DCM- MHD CITY

May 19, 2017

Mr. Greg Rudolph, Chair
NC Coastal Resources Advisory Council
NC Division of Coastal Management
400 Commerce Avenue
Morehead City, NC 28557

Mr. Rudolph:

Thank you for the opportunity to suggest environmental areas of concern that affect our communities in the areas that are sometimes referred to as the Inner Banks. The most pressing issue facing the Town of Columbia and surrounding Tyrrell County is storm water drainage.

Within the Town of Columbia there are six drainage canals that are in dire need of dredging to their original depth and width. Just snagging and removing visible natural and man-made debris is not adequate to maintain water flows to quickly drain storm waters or major storm floodwaters from private and public properties. The result is frequently flooded properties, damaged homes, businesses, schools and roadways.

The difficulty in securing dredging permits and other restrictions placed upon dredging of existing canals cost residents money and depress property values in our already economically depressed community.

We urge the NC Division of Coastal Management to work with our low-lying communities to address this important issue. Thank you for considering this request.

Yours truly,

F. Michael Griffin, Mayor

Robert C. Edwards
Mayor

Susie Walters
Mayor Pro Tem

Cliff Ogburn
Town Manager



Town of Nags Head
Post Office Box 99
Nags Head, North Carolina 27959
Telephone 252-441-5508
Fax 252-441-0776
www.nagsheadnc.gov

M. Renée Cahoon
Commissioner

John Ratzenberger
Commissioner

Marvin Demers
Commissioner

May 10, 2017

Greg (Rudi) Rudolph, Chair
Coastal Resources Advisory Council
P O Box 4297
Emerald Isle, NC 28594

Dear Mr. Rudolph:

On behalf of the Nags Head Board of Commissioners, the following information is provided in response to your letter of April 19, 2017 concerning Coastal Resources Advisory Council nominations and top coastal issues:

- 1) It was Board consensus to nominate University of North Carolina - Coastal Studies Institute Executive Director Nancy White for membership on the Coastal Resources Advisory Council.
- 2) It was Board consensus to forward the following "wish list" items to CRAC for consideration:
 - a. Beach nourishment
 - b. Septic tank impacts
 - c. Removal of condemned houses from the oceanfront
 - d. Sand relocation
 - e. Dune management - 15A NCAC 07H.0306 (b) – restricts development that removes or relocates the dune in a manner that would "adversely affect the integrity of the dune." Over the years staff has reviewed projects that propose cutting or removing a portion of the dune. This could be for a structure such as a swimming pool, an accessory building, or even the dwelling. It would be helpful to clarify, define, or provide guidance on when the integrity of the dune is adversely affected.
 - f. Offshore sand resources – the Town is currently looking for a borrow site in the north end of town to reduce the cost of our project. Coastal municipalities spend a great deal of money identifying sand to use for nourishment. Some assistance in developing/enhancing a regional or statewide program/database to identify sand resources would assist local governments in preparing for these projects. Often consultants rely on previous studies by USGS, USACOE, and other entities. In some areas of the state there has been little information developed on this topic. There may be other efforts the state could undertake to better coordinate regional nourishment projects to eliminate duplication of work among local governments.
 - g. Erosion control - 15A NCAC 07H.0308 (a)(1)(B) prohibits the construction of permanent erosion control structures such as bulkheads or seawalls. We need to look at erosion control measures and offshore barriers that would help but need to be in shore close enough to take action. We are looking at ways to protect the "sand box". Possibilities include a non-terminal groin that allows an anchor on one end of a project without causing too much damage to property on the other side; or offshore barriers such as artificial reefs that will aid/supplement the protection from the beach nourishment project by absorbing wave energy.

Thank you for the opportunity to provide these suggestions. Please do not hesitate to contact me with any questions.

Sincerely,

A handwritten signature in cursive script that reads "Cliff Ogburn". The signature is written in dark ink and is positioned above the printed name and title.

Cliff Ogburn
Town Manager

CO/cfm

COUNTY OF WASHINGTON

BOARD OF COMMISSIONERS

COMMISSIONERS:

JULIUS WALKER, JR., CHAIR
TRACEY A. JOHNSON, VICE-CHAIR
D. COLE PHELPS
JENNIFER C. RIDDICK
WILLIAM "BILL" R. SEXTON, JR.



POST OFFICE BOX 1007
PLYMOUTH, NORTH CAROLINA 27962
OFFICE (252) 793-5823 FAX (252) 793-1183

ADMINISTRATION STAFF:

CURTIS S. POTTER
INTERIM COUNTY MANAGER/
COUNTY ATTORNEY
cpotter@washconc.org

JULIE J. BENNETT, CMC, NCCCC
CLERK TO THE BOARD
jbennett@washconc.org

May 8, 2017

Mr. Greg Rudolph, CRAC Chair
Carteret County Shore Protection Office
P.O. Box 4297
Emerald Isle, NC 28594

Dear Mr. Rudolph:

At their regular meeting on May 1, 2017, the Washington County Board of Commissioners nominated Ms. Ann Keyes, Washington County's Planning/Safety and Emergency Management Director, to be a member of the Coastal Resources Advisory Board. Ms. Keyes has worked with the County for over 40 years in these roles and is well-qualified to be on this Board.

Her contact information is below:

Ms. Ann Keys, Director of Planning/Safety and Emergency Management
P.O. Box 1007
Plymouth, NC 27962
252-793-4114
akeys@washconc.org

Washington County's two top coastal issues are flooding and drainage. We do hope that CRAC could coordinate assistant with these issues.

Please don't hesitate to contact me if you need further assistance.

Sincerely,

Julie J. Bennett, CMC, NCCCC
Clerk to the Board

Cc: A. Keyes, Director, Planning/Safety and Emergency Management
Mr. Curtis Potter, Washington County Interim County Manager

North Carolina
Coastal Resources Advisory Council
Nomination Form

Name of Nominee: Candy Bohmert

Home Address of Nominee: 311 Midyette Street

Oriental, NC 28571

Telephone: (CELL) 252-675-1411 (WORK) 252-201-9077

Special Qualifications and Interests:

I work in agriculture with a focus on water quality and related BMPs.

My home and business are on the water. I am a kayaker and scuba diver/snorkeler.

Current Employment:

Pamlico Soil and Water Conservation District, September 2002 - Present

Past Employment:

Marine Mechanical and Electrical Repair – Clancy's Marina 2000-2002

Educational Background:

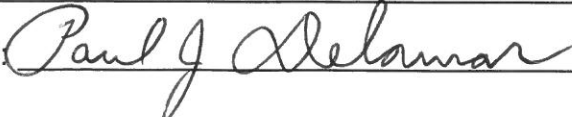
W.T Woodson High School Fairfax, VA. 1972

Pamlico Community College AAS Environmental Science Technologies 1996

County of Local Government Making Nomination: Pamlico County

Name: Paul J. Delamar

Title: Chairman of the Board, Pamlico County Commissioners

Signature: 

To: Angela Willis
NC Division of Coastal Management
400 Commerce Ave.
Morehead City, NC 28557

**APPLICATION FOR APPOINTMENT
TO THE
COASTAL RESOURCE ADVISORY COMMITTEE**

PAMLICO COUNTY

P.O. BOX 776

BAYBORO, NC 28515

Applicant Name: Candy Bohmert

Date of Application: April 19, 2017

Home Address: 311 Midyette Street, Oriental, NC 28571

Cell Phone: 252-675-1411

Email Address: candybohmert@gmail.com

I am interested on serving on the Coastal Resource Advisory Council. I am a Pamlico County Commissioner, a small marina owner, and I work for the Pamlico Soil and Water Conservation District as a Natural Resource Conservationist.

As a 25 year resident of Pamlico County, I have been involved with economic development through the Pamlico Chamber of Commerce and The Committee of 100. I was involved with the Tourism Board in Oriental as well as the head of the Croaker Festival for ten years. I have worked with various organizations to help people, such as Habitat for Humanity.

In my capacity as a natural resource conservationist with the Pamlico Soil and Water Conservation District I have worked with several State and Federal agency's to promote water quality in this area, Coastal Management being one of them.

I bring with me knowledge, experience and perspective from several different points of view.

My current concerns involve the buffers that were put in place to protect our waterways. Some are working and some are not, in my view.

Another concern that I have is insurance rates being based on sea level rise. While evidence shows that sea level is on the rise, I'm not certain that basing insurance rates on it is prudent.

I appreciate your consideration.

**APPLICATION FOR
APPOINTMENT TO COUNTY
BOARDS AND COMMITTEES**

**PAMLICO COUNTY
P.O. BOX 776
BAYBORO, NC 28515**

This application requests some general information based on your interest in applying for a position on a Pamlico County Advisory Board, Commission, Committee or Task Force.

Applicant Name: Candy Bohmert Date of Application: 3 / 28 / 17

Home Address: 311 Midyette St.

Phone: 252-675-1411

Email Address: dahcaingirl@gmail.com

FAX Number: na

I am interested in serving on the following Board/Committee

The Coastal Resource Advisory Committee

EMPLOYMENT AND EDUCATION

Employer <u>Pamlico Soil and Water Conservation District</u>	Graduate? Y/N <u>Y</u> Major <u>High School</u>
Address <u>13724 Hwy 55E, Bayboro, NC</u>	College <u>AAS-Environmental Science</u>
Phone: <u>252-745-5064</u>	Graduate School _____
Occupation: <u>Natural Resource Conser.</u>	Other _____

Are you a citizen of the United States? Yes X No _____ If yes, how long? _____

Length of residence in the Pamlico County 25 years _____ months

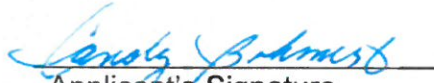
Current Civic/Community Participation I mentor teens, as well as participate in civic and community roles as part of being a County Commissioner.

Are you currently serving or have you ever served on a public board or committee? If so, please list below:

Board	Dates
Pamlico County Commissioner	11/2016 – 12/2020
Oriental Town Commissioner	11/2003-12/2011
Plan It East – a regional planning partnership	9/2010-11/2012

Please provide a brief statement outlining why you wish to serve on the Advisory Board, Commission, or Committee you have indicated.

I have always been interested in our environment and how to be a good steward of the resources we've been given. The balance between people and their individual property rights and what's good for everyone seem to clash where the land and the water meet the sky. Some of the issues have brought regulations that appear to restrict people too much, or not enough. I feel that my background has given me many perspectives to draw from when discussing current issues like port expansion and more development that will bring more people, more roads, and more development. I would greatly appreciate being considered for a position on this Board.


Applicant's Signature

5/8/17
Date

You may attach a resume to provide additional information.

Please return form to:
Pamlico County Manager's Office
P.O. Box 776
Bayboro, NC 28515
Or
Fax
252 745-5514

MAYOR
JOSEPH W. PEEL
MAYOR PRO-TEM
ANITA HUMMER
CITY MANAGER
RICHARD C. OLSON
CITY CLERK
VIVIAN WHITE, NCCMC



CITY COUNCIL MEMBERS
JEAN M. BAKER
MICHAEL E. BROOKS
RAYMOND T. DONNELLY
DARIUS J. HORTON
RICKEY E. KING
TONY STIMATZ
JOHNNIE B. WALTON

CITY OF ELIZABETH CITY

May 31, 2017

NC Division of Coastal Management
400 Commerce Avenue
Morehead City, NC 28557

Attn: Angela Willis (Angela.Willis@ncdenr.gov)

Dear Ms. Willis:

Pursuant to a letter received by the City of Elizabeth City dated April 19, 2017 from the North Carolina Coastal Resources Advisory Council, the City Council of the City of Elizabeth City voted unanimously to nominate for appointment Dr. George E. Taylor, Jr. to the Coastal Resources Advisory Council.

Dr. Taylor is a retired professor at George Mason University living in Pasquotank County. As you will see from his attached resume, his background lies in biogeography, the sciences and ecology. The Elizabeth City Council believes that his experience makes him uniquely qualified to serve on the CRAC.

If you require additional information regarding this matter, please feel free to let me know.

Sincerely,

Vivian D. White, CRC/NCCMC
City Clerk

/vdw

Attachment

Resume

GEORGE E. TAYLOR, JR.

Retired Professor
Department of Geography and Geoinformation Science
George Mason University
4400 University Drive
Fairfax, VA 22030-4444

gtaylor@gmu.edu

getaylornc@gmail.com

professortaylorGMU@gmail.com

EDUCATION

B.S., Randolph-Macon College, 1971
Ph.D., Emory University, 1976
Postdoctorate in Plant Physiology and Ecology, National Academy of
Sciences/National Research Council, 1977-1979

CIVIC ACTIVITIES

Coastal Wildlife Refuge Society, Alligator River NWR
Board member (2009-2014) and (2016-present)
President (2010-2014)
Elizabeth City Sunrise Rotary Club (2008-2010)
Fairfax City Rotary, 1998-2006
Vice-President, President-Elect and President (2001-2003)
Executive Committee
Paul Harris Fellow
President, Fairfax Rotary Foundation, 2003-2005
Reno Downtown Rotary Club, 1993-1998
Rotary Youth Exchange Program
Executive Committee

PROFESSIONAL ACADEMIC EXPERIENCE

George Mason University (1998-2016)
Retired - 2016
Professor, Department of Geography and Geoinformation Science
2001-2016
Senior Associate Dean, School of Computational Sciences, 2002-2007
Science Coordinator, Undergraduate Honor's Program, 2000-2007
Chair and Professor, Department of Biology, 1998-2000
University and Community College System of Nevada (1990-1998)
Assistant Dean, College of Agriculture at UNR, 1997-1998
Chair and Professor, Department of Environmental and Resource
Sciences at UNR, 1990-1997
Associate Director, Center for Environmental Sciences and
Engineering (UNR), 1994-1995
Director, Graduate Program in Environmental Sciences and Health
(UNR), 1994-1995
Oak Ridge National Laboratory (1979-1989)
R&D Group Leader in Physiological Ecology, Environmental Sciences
Division, 1985-1989

Research Staff Member, Environmental Sciences Division, 1983-1989
Research Associate, Environmental Sciences Division, 1980-1983
U.S. National Academy of Sciences-National Research Council Postdoctoral
Fellow in Plant Physiology, 1977-1979
Instructor, Agnes Scott College, 1975-1977

RESEARCH INTERESTS

Biogeography
Science and the Public Policy
Science and Mathematics Education and Training
Application of Remote Sensing and GIS to Ecology
Ecology, Physiology and Population Biology of Plants
Ecological Toxicology and Risk Assessment
Atmospheric Chemistry and Air Quality

BUSINESS ENDEAVORS

Scientific and Technical Editing (2015-present)
<http://www.professortayloredit.com/>

COURSES TAUGHT (Graduate and Undergraduate)

Guns, Germs and Steel (Honors Program)
Scientific Thought and Processes (Honors Program)
Astrobiology: Origin of Life in the Universe
Regional and Global Issues in Environmental Science
Biogeography: Distribution of Plants and Animals
Biology of Invasive Species
Plant Ecophysiology
Oral and Written Communication Skills for Scientists
Issues in Atmospheric Chemistry and Air Quality

PROFESSIONAL HONORS, ACTIVITIES, AND APPOINTMENTS

Coastal Wildlife Refuge Society, 2007-2012 and 2106-present
President, 2007-2012
Editor, Terrestrial Ecology and Plants, *Environmental Toxicology and Chemistry*, Society for Environmental Toxicology and Chemistry, 2001-2006
Scientific Advisory Committee, National Park Service, National Capitol Region, 2002-2003
Science Advisory Panel, U.S. Environmental Protection Agency
Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Committee, 2001-2005
Food Quality Protection Act Board, 2001-2005
Organizing Committee, International Conference on Ecotoxicogenomics, September, 2002 (Pensacola, Florida)
American Chemistry Council, Environmental Technical Implementation Panel, 2000-2003
Invasive Species Advisory Committee, Risk Assessment and Management

Subcommittee, 2000-2003
 Science Advisory Committee, Department of Environmental Quality, State of Virginia, 2000-2003
 Science Advisory Board, U.S. Environmental Protection Agency
 Member, Ecological Risk Assessment Committee, Iron Smelters, 2000-2005
 Member, Clean Air Act Compliance Council, Physical Effects Review Subcommittee, 1994-2002
 Member, Health and Ecological Effects Subcommittee, 1997-2002
 Member, Residual Risk Subcommittee, 1998-2006
 Member, Clean Air Scientific Advisory Committee, 1986-1997 and 2001-2003
 ESCOP/ACOP Leadership Development Program, US Department of Agriculture, 1996-1997
 Editorial Board, *Journal of Environmental Quality*, 1988-1995
 Editorial Advisory Board, *Tree Physiology*, 1989-1998
 Editorial Board, *Society for Environmental Toxicology and Chemistry*, 1996-1998
 Scientific Planning Committee, "3rd Urals Symposium: Human Health and Radioecology of Contaminated Landscapes in the Ural Mountains", Ekaterinburg, Russia, May 1995
 5th International Conference on Acidic Deposition: Science and Policy, Gothenburg, Sweden, June 1995; Scientific Planning Committee, International Advisory Group, 1994-1995
 Organizer, "Symposium on Mercury Contamination in Arid and Semiarid Landscapes" November, 1994, Denver, Colorado
 Science Advisory Committee, University of California-Davis' Center of Excellence in Ecological Health, U.S. Environmental Protection Agency, 1992-1993
 Organizer, National/International Symposium "National Needs for Controlled Environments in the Ecological and Environmental Sciences" February, 1993, Lake Tahoe, Nevada
 Member, Coal Fuel Cycle Peer Review Panel, Secretary of Energy's Advisory Committee, 1992-1993
 Organizer, International Symposium "Ecological Genetics, Terrestrial Vegetation, and Anthropogenic Changes in the Physical and Chemical Properties of the Atmosphere" April, 1989, Phoenix, Arizona; proceedings published by Springer-Verlag, New York
 Natural Sources Task Group, U. S. Interagency Task Force on Acid Precipitation, 1982-1990
 Editor, Physiological Section Newsletter, Botanical Society of America, 1983-1985
 Executive Steering Committee, International Air Pollution Workshop, 1980-1983
 Society of Sigma Xi, 1974
 Phi Beta Kappa, 2001
 Who's Who in American Colleges and Universities, 1971
 Omicron Delta Kappa, Beta Beta Beta and Chi Beta Phi, 1970

PUBLICATIONS: Book

Taylor, G.E. Jr., L.F. Pitelka and M.K. Clegg (editors). 1991. *Plant Ecological Genetics and Air Pollution*. Springer-Verlag, New York, 354 pp.

PUBLICATIONS: Manuscripts (underlined co-authors are students)

Lostritto, P.L. and G.E Taylor Jr. Effects on Piping Plover (*Charadrius*

melodus Ord) Foraging Habitat from Sea-level Rise: A Geographic Information Systems Approach. Maryland Birding (in press)

- Garnet, K.N., L. Litchfield, P. Megonigal and G.E. Taylor, Jr. 2006. Methane emission from four aquatic macrophytes: variation among species and sites of physiological control. *Aquatic Botany* 81; 141-155.
- Tarnay, L, A. Gertler and G.E Taylor, Jr. 2002. An inferential model for HNO₃ deposition to semi-arid coniferous forests. *Atmospheric Environment* 36: 3277-3287
- Taylor, G.E., Jr. 2002. Ecological risk characterization of low dose, high potency herbicides. pp 129-158 IN S.A. Ferenc (ed) *Impact of Low Dose, High Potency Herbicides on Nontarget Plants*. Society for Environmental Toxicology and Chemistry Press, Pensacola, FL.
- Taylor, G.E., Jr. 2001. Invited review: Risk assessment of tropospheric ozone: human health, natural resources and ecology. *Human and Ecological Risk Assessment* 7:1183-1193.
- Tarnay, L., A.W. Gertler, R.R. Blank and G.E. Taylor, Jr. 2001. Preliminary measurements in the Lake Tahoe Basin air-shed: implications for dry deposition of atmospheric nitrogen. *Environmental Pollution* 113:145-153.
- Taylor, G.E., Jr. 2000. Invited plenary review: Fifty years of ozone research in the United States - a retrospective and prospective analysis. pp 1-11 IN W-J Weigel and M. Finck (editors) *Tropospharisches Ozon*. Kommission Reinhaltung der Luft (KRdL) Im VDI UND DIN - Normenausschuss, Dusseldorf, Germany.
- Taylor, G.E., Jr., K. Beck, L. Tarnay and M. Gustin. 1999. Dry deposition of trace pollutant gases to high elevation forests in the Southern Sierra Nevada Mountains: results from process-level modeling. Pp 555-564 in 5th National Watershed Conference; Living in Your Watershed. Reno, NV.
- Leonard, T.D., G.E. Taylor, Jr., M.S. Gustin and G.C. Fernandez. 1998. Mercury and plants in contaminated soils: 1. Uptake, partitioning and emission to the atmosphere. *Environmental Toxicology and Chemistry* 17: 2063-2071.
- Leonard, T.D., G.E. Taylor, Jr., M.S. Gustin and G.C. Fernandez. 1998. Mercury and plants in contaminated soils. 2. Environmental and physiological factors governing flux to the atmosphere. *Environmental Toxicology and Chemistry* 17: 2072-2079.
- Taylor, G.E., Jr. 1998. Forest ecosystems and air pollution: the importance of multiple stress interactions at a regional and global scale. pp. 23-39 IN J.J. Cech, B.W. Wilson and D.C. Crosby (eds.) *Effects of Multiple Impacts on Ecosystems*, Lewis Publishers, Chelsea, MI.
- Heath, R.L. and G.E. Taylor, Jr. 1997. Physiological processes affecting plant responses to ozone exposure. pp 317-368 IN H. Sandermann, Jr., A.R. Wellburn and R.L. Heath (eds.) *Forest Decline and Ozone: A Comparison of Controlled Chamber and Field Experiments*. Springer-Verlag, New York, NY.
- Constable, J.A. and G.E. Taylor, Jr. 1997. Modeling the effects of elevated tropospheric ozone on two varieties of *Pinus ponderosa*. *Canadian Journal of Forestry Research* 27:527-537.

- Gustin, M.S., G.E. Taylor, Jr. and R.A. Maxey. 1997. Effect of temperature and air movement on the flux of elemental mercury from substrate to the atmosphere. *Journal of Geophysical Research* 102: 3891-3898.
- Gustin, M.S., G.E. Taylor, Jr., T.L. Leonard, and R.E. Keisler. 1996. Atmospheric mercury concentrations associated with geologic and anthropogenic enriched sites in central western Nevada. *Environmental Science and Technology* 30: 2572-2579.
- Taylor, G.E., Jr., K. Beck, J. Geddes, M. Gustin and G. Lorson. 1996. Microbial ecology, toxicology and chemical fate of methylisothiocyanate in riparian soils of the upper Sacramento River. *Environmental Toxicology and Chemistry* 15: 1694-1701.
- Constable, J.A., G.E. Taylor, Jr., J.A. Laurence and J.A. Weber. 1996. Climate change effects on the physiology and growth of *Pinus ponderosa*: expectations from simulation modeling. *Canadian Journal of Forestry Research* 26: 1315-1325.
- Geddes, J., G. Miller and G.E. Taylor, Jr. 1995. Photolysis of methylisothiocyanate. *Environmental Science and Technology* 29: 2590-2594.
- Gustin, M.S., G.E. Taylor, Jr. and T. Leonard. 1995. Atmospheric mercury concentrations above mercury contaminated mill tailings in the Carson River Drainage Basin, NV. *Water, Air and Soil Pollution* 80: 217-220.
- Warwick, J.J., G. E. Taylor, Jr., D.M. Wayne, S.J. Haness and W.B. Lyons. 1994. Understanding the transport and fate of mercury within the Carson River system, Nevada - a rational approach to remediation evaluation. IN C.R. Cothorn (ed.) *Trace Substances, Environment and Health*. Science Reviews, Norwood Press.
- Taylor, G.E., Jr., D.J. Johnson and C.P. Andersen. 1994. Commissioned review - Air pollution and forest ecosystems: a regional to global perspective. *Ecological Applications* 4: 662-689.
- Gustin, M.E., G.E. Taylor, Jr. and T. Leonard. 1994. High levels of mercury contamination in the Carson River Drainage Basin of Nevada: Implication for human health and ecological risk assessment. *Environmental Health Perspectives* 102: 772-778.
- Taylor, G.E., Jr. 1994. Controlled environment facilities in ecology and the environmental sciences.
 Bulletin of the Ecological Society of America 75: 277-280.
 Society of Environmental Toxicology and Chemistry News 14: 12-13.
- Taylor, G.E., Jr. and J.V.H. Constable. 1994. Modeling pollutant deposition to vegetation: scaling down from the canopy to the biochemical level. pp. 15-37 IN: K.E. Percy, J.N. Cape R. Garrels and C.J. Simpson (eds.) *Air Pollution and The Leaf Cuticle*, NATO ASI Series G; Ecological Sciences, Springer-Verlag, Heidelberg, Germany.
- Taylor, G.E., Jr. 1994. Role of genotype in the response of Loblolly Pine to tropospheric ozone: effects at the whole-tree, stand and regional level. *Journal of Environmental Quality* 23: 63-82.

- Kelly, J.M., G.E. Taylor, Jr., N.T. Edwards, M.B. Adams, G.S. Edwards and A.L. Friend. 1993. Growth, physiology and nutrition of Loblolly Pine seedlings as impacted by air pollution stress: the ROPIS-South results. *Water Air Soil Pollution* 69: 363-391.
- Taylor, G.E., Jr. 1993. An a priori screening methodology to identify air toxics of potential ecological concern: a methodology for quantitative risk assessment. pp. 220-234 IN: W. Chow and K.K. Connor (eds.) *Managing Hazardous Air Pollutants*. Lewis Publishers, Ann Arbor, MI.
- Taylor, G.E., Jr., J.G. Owens and T. Grizzard. 1993. Atmosphere-canopy interactions of nitric acid vapor generated during ozone exposure of loblolly pine (*Pinus taeda* L.) seedlings in open-top chambers. *Journal of Environmental Quality* 22: 70- 80.
- Taylor, G.E., Jr. and P.J. Hanson. 1992. Forest trees and tropospheric ozone: role of canopy deposition and leaf uptake in developing exposure-response relationships. *Agriculture Ecosystems and Environment* 42: 255-273.
- Lindberg, S.E., T.P. Meyers, G.E. Taylor, Jr., R.R. Turner and W.H. Schroeder. 1992. Atmosphere/surface exchange of mercury in a forest: results of modeling and gradient approaches. *Journal of Geophysical Research* 97: 2519-2528.
- Taylor, G.E., Jr. and L.F. Pitelka. 1992. Genetic diversity of plant populations and the role of air pollution stress. pp. 111-130 IN: (J. R. Barker and D. T. Tingey, eds.) *Air Pollution Effects on Biodiversity*, Van Nostrand Reinhold, New York.
- Friend, A.L., P.T. Tomlinson, R.E. Dickson, E.G. O'Neill, N.T. Edwards, and G.E. Taylor, Jr. 1992. Biochemical composition of loblolly pine reflects pollutant exposure. *Tree Physiology* 11: 35-47.
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- Garten, C.T., Jr. and G.E. Taylor, Jr. 1992. Foliar $\delta^{13}C$ within a temperate deciduous forest: spatial, temporal, and species sources of variation. *Oecologia* 90: 1-7.
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of reactive N gas deposition to forest landscape surfaces: biological and environmental controls. pp. 166-177 IN: (D. W. Johnson and S. E. Lindberg, eds.) Atmospheric Deposition and Forest Nutrient Cycling, Springer-Verlag, New York.

Taylor, G.E., Jr. and M.M. Ross-Todd. 1992. Patterns of tropospheric ozone in forested landscapes of the Integrated Forest Study. pp. 50-71 IN: (D. W. Johnson and S. E. Lindberg, eds.) Atmospheric Deposition and Forest Nutrient Cycling, Springer-Verlag, New York.

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Lindberg, S.E., R.R. Turner, R.R. Myers, G.E. Taylor, Jr. and W.H. Schroeder. 1991. Atmospheric concentrations and deposition of airborne Hg to a deciduous forest at Walker Branch Watershed. Water, Air, Soil Pollution 56: 577-594.

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Adams, M.B., J.M. Kelly, G.E. Taylor, Jr. and N.T. Edwards. 1990. Growth of five families of Pinus taeda L. during three years of ozone exposure. New Phytologist 116: 689-694.

Taylor, G.E., Jr., P.J. Hanson and S.E. Lindberg. 1990. Deposition of trace gases in controlled environments: a conceptual model, experimental methodologies, and application of results to the disciplines of physiological ecology and biogeochemistry. pp 194-215 IN: (H. D. Payer, ed.) Environmental Research with Plants in Closed Chambers (Air Pollution Research Report 26, Commission of the European Communities), Brussels.

Adams, M.B., N.T. Edwards, G.E. Taylor, Jr. and B.L. Skaggs. 1990. Whole-plant ^{14}C -photosynthate allocation in loblolly pine (Pinus taeda L.): Seasonal patterns at ambient and elevated ozone levels. Canadian Journal of Forestry Research 20: 152-158.

Edwards, N.T., G.E. Taylor, Jr., M.B. Adams, G.L. Simmons and J.M. Kelly. 1990. Ozone, acidic rainfall, and soil magnesium effects on growth and foliar pigments of Pinus taeda L. Tree Physiology 6: 95-104.

Hanson, P.J. and G.E. Taylor, Jr. 1990. Modeling pollutant gas uptake by leaves: an approach based on physiocochemical properties. pp. 351-356, IN: Forest Growth: Process Modeling of Responses to Environmental Stress, TimberPress/Auburn University, Auburn, Alabama.

Adams, M.B. and G.E. Taylor, Jr. 1990. Effects of ozone on forests in the northeastern United States. pp. 145-168 IN: E. Calabrese (ed.). Proceedings of Conference on Ozone Risk Communication. Lewis Publishers, Chelsea, Michigan.

Trivelpiece, A.W., P.D. Fairchild, W. Fulkerson, A.E. Green, A.M. Perry, J. D. Regan, G.E. Taylor, Jr., and R.I. Van Hook. 1989. Environmental, health, and CFC substitution aspects of the ozone depletion issue. ORNL/TM -6552, Oak Ridge National Laboratory, Oak Ridge, TN 37831.

- Johnson, D.W. and G.E. Taylor, Jr. 1989. The role of air pollution in forest decline in eastern North America. *Water, Air and Soil Pollution* 48: 21-43.
- Hanson, P.J., K. Rott, G.E. Taylor, Jr., C.A. Gunderson, and S.E. Lindberg. 1989. NO₂ deposition to elements of a forest landscape. *Atmospheric Environment* 23: 1783-1794.
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**RESOLUTION REQUESTING THE COASTAL RESOURCES ADVISORY COUNCIL
TO ESTABLISH CERTAIN POLICIES BASED ON ADOPTED PENDER COUNTY ITEMS OF INTEREST**

WHEREAS, the Coastal Resources Advisory Council (CRAC) coordinates with the Governor and General Assembly appointed Coastal Resources Commission (CRC) to balance and foster the protection and wise development of the State's coastal resources through both planning and regulation; and

WHEREAS, the CRAC serves the CRC and the Department of Environmental Quality (DEQ) in the administration of the Coastal Area Management Act (CAMA) in terms of policy and rule-making; and

WHEREAS, the Coastal Resources Advisory Council (CRAC) has requested Pender County submit items of interest that the CRAC may be of assistance in aiding coordination with the administrative staff at the N.C. Division of Coastal Management (DCM); and

WHEREAS, the Pender County Comprehensive Land Use Plan, certified by the CRC on August 30, 2012, outlines goals and policies that identify public water access and stormwater management as areas of importance for natural resource preservation and utilization; and

WHEREAS, according to *Public Access Management Goal 7D.1*, Pender County has identified an expansion of increased public water access to the Atlantic Intracoastal Waterway, rivers, creeks, and streams as an area of importance within the County; and

WHEREAS, according to *Stormwater Management Goal 2G.1*, Pender County has identified water quality and stormwater runoff as an area of environmental concern necessary for preserving the quality of public trust waters for the ecological and recreational benefits of the citizens of Pender County; and

WHEREAS, it is important for the CRAC and CRC to continue coordinating with coastal counties on items of interest for policy development and implementation; and

NOW, THEREFORE, BE IT RESOLVED that the Pender County Board of Commissioners, requests that the Coastal Resources Advisory Council (CRAC) assist in establishing certain policies based on adopted Pender County items of interest.

This 15th day of May, 2017.

George Brown, Chairman
Pender County Board of Commissioners

ATTEST:

Melissa Long, Clerk to the Board



Willis, Angela

From: Scott Chase <schase@ci.swansboro.nc.us>
Sent: Monday, May 08, 2017 9:52 AM
To: Paula Webb; Willis, Angela
Cc: Andrea Correll
Subject: RE: CRAC Nomination - Swansboro and coastal issues response

Angela

Thank you for taking our nomination. As part of the letter you requested: *What are your local community's two (or more) top coastal issues the CRAC/CRC may be of assistance in coordination with the administrative staff at the N.C. Division of Coastal Management (DCM)? While regulations and permitting are the backbone of the Coastal Management Program, the CRAC and CRC wants to be proactive with respect to your more policy-centric issues.*

1. Land Use Plan (updates). The grant money available most recently is not enough to do updates to our local plans. Our town has seen significant growth since our last update. We have requested grant funding this year however concerned that the amount will not be enough to cover the expenses.
2. CRC/DCM proactive in local planning. When this funding was available, the CRC/DCM used to be more proactive regarding land use. I believe it essential that more resources be given to local governments in the CAMA counties (i.e. follow up from planners at DCM, checking in on local partners on our planning implementation, etc. Would help identify need/shortcomings in local government implementation. Local governments in CAMA counties seeing significant growth and need help with management

Thanks!

Scott

From: Paula Webb
Sent: Monday, May 01, 2017 11:47 AM
To: Angela.Willis@ncdenr.gov
Cc: Scott Chase <schase@ci.swansboro.nc.us>
Subject: CRAC Nomination - Swansboro

Angela – please find attached resume for Commissioner Frank Tursi for consideration as a member of the CRAC. Should you have any questions, please don't hesitate to contact me.

Paula W. Webb, MMC-NCCMC
Town Clerk/Administrative Services Director
601 W. Corbett Avenue
Swansboro, NC 28584
pwebb@ci.swansboro.nc.us
(910) 326-4428 phone
(910) 326-3101 fax
.....<(((*>.....<(((*>.....<(((*>

Frank V. Tursi

270 River Reach Dr., Swansboro, N.C.

252-241-3505

EXPERIENCE

Swansboro Town Commissioner, 2015-present

Founding Editor, Coastal Review Online, North Carolina Coastal Federation, 2011-2016 (retired)

- Conceived the online news service and responsible for its launch in February 2011
- Responsible for the budget and daily content of news service
- Manages a staff of two and about a dozen freelance writers

Coastkeeper, North Carolina Coastal Federation, 2001-2011

- Responsible for directing NCCF's Coastkeeper Program, including policies, plans, budgets and equipment purchases.
- Implement effective programs to improve enforcement of environmental regulations.
- Liaison with Board of Directors' Coastkeeper Committee.

Reporter and Editor, The Winston-Salem Journal, Winston-Salem, N.C., 1978-2001

- Special projects/environmental reporter, June 1988-December 2001. I was the senior environmental reporter in the state. My duties included reporting on CRC meetings and on the N.C. Division of Coastal Management.
- Science/medical reporter, October 1985-June 1988
- Copy editor/Sunday news editor, May 1981-October 1985
- Sports writer, sports copy editor, August 1978-May 1981

Reporter and Editor, The Miami Herald, Miami Fla., 1977-1978

- Suburban sports editor and writer, January 1977-May 1978

News Editor, The Coral Gables Times Guide, Coral Gables, Fla. 1975-1977

- Responsible for the news content of the twice weekly newspaper and managing an editorial staff of five reporters and two photographers.

Reporter, The Key Biscayne Islander News, Key Biscayne, Fla, 1974-1975

Reporter, The Clemmons Courier, Clemmons, N.C, 1973-1974

RELATED EXPERIENCE

BOOKS

- Author, *Lost Empire: The Fall of R.J. Reynolds Tobacco Co.*, John F. Blair, Publisher, 2000
- Author, *The Winston-Salem Journal: Magnolia Trees and Pulitzer Prizes*, John F. Blair, Publisher, 1996
- Author, *Winston-Salem: A History*, John F. Blair, Publisher, 1994
- Author, *Where the Land Meets the Sea*, N.C. Department of Environment, Health and Natural Resources, 1990

AWARDS

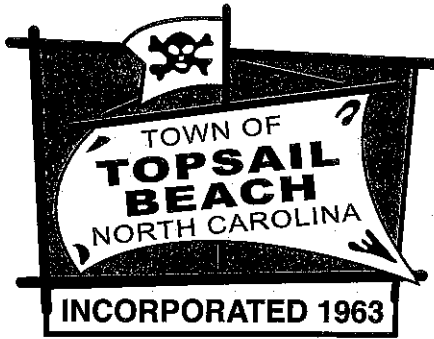
- Numerous writing awards from the N.C. Press Association, including four Public Service Awards.
- Directed the staff of Coastal Review Online that won 40 press association awards over two years, including a General Excellence Award.
- Books have won the History Book Award by the N.C. Society of Professional Historians and the Special Commendation Medal of the Society for State and Local History.

EDUCATION

- Bachelor of Science, English and Geology, East Carolina University, Greenville, N.C., 1973

PROFESSIONAL AFFILIATIONS

- Board Member, East Carolina Council
- Former Board Member, N.C. Conservation Network
- Former Member, National Advisory Board, Institute for Journalism and Natural Resources
- Former Member, Waterkeepers' Alliance
- Former Member, Coastal Caucus



March 27, 2017

Ms. Willis,

Would you please be so kind as to distribute this letter to Mrs. Cahoon as well as the rest of the members of the Coastal Resource Commission.

Thank you,

Christina Watkins

Christina Watkins

Topsail Beach Town Clerk

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Topsail Island Shoreline Protection Commission



March 18, 2017

Renee Cahoon,
CRC Chairwoman
N.C. DEQ Administration
1601 Mail Service Center
Raleigh, N.C. 27699-160

Subject: CRC Chairman request for feedback from users of CRC Regulations

Dear Ms. Cahoon,

The Topsail Shoreline Protection Commission (TISPC) held a workshop to review Coastal Resources Commission (CRC) regulations that impact our beaches, inlets and sounds. We offer the suggestions below to the CRC on areas that might be considered for improvement as part of the CRC normal review process.

The TISPC is chartered by the towns of North Topsail Beach, Surf City and Topsail Beach to keep their respective town boards and the county boards of Onslow and Pender informed concerning items related to our area beaches, inlets and sound.

Please consider our suggestions in your review process. Our desire is to improve and protect the quality of our beaches for the benefit of all who use them.

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TOPSAIL ISLAND SHORELINE PROTECTION COMMISSION (TISPC)

TISPC Contact Info: PO Box 2475 - 214 N New River Dr., Surf City, NC 28445 - Phone: 910-328-4131 - Fax: 910-328-1476
Chairman Contact: Steven G. Smith – Mobile: 910-547-2677 – Fax 910-328- 5833 – email: SteveSmithTB@aol.com

1. Suggested Changes to CRC and NC Regulations: (no order of importance)

- a. Now that terminal groins have been approved for NC and some have been constructed, the need to get approval from 21 federal and state agencies seems excessive and delays construction of new groins since 3-4 years pass before final approval.
 - i. Terminal groins are very expensive to construct for small beach towns and are a last resort for keeping sand out of the inlet and on the beach; so once a town has made the financial commitment to construct, then the approval process should flow quicker.
 - 1. As an example, when Environmental Impact Studies (EIS) have been done in the last 3-4 years for the area proposed for a new terminal groin, the data from that EIS which applies to terminal groin construction should be used to shorten approval time.
- b. The CRC should modify the rule requiring adjacent property owners to be notified before issuing a CAMA permit. The current requirements are misleading and confusing to the adjacent property owners because it gives them the impression they have to approve the project. While they can comment about the project, it does not require their approval before issuance of a permit.
 - i. Is there a real need to contact the adjacent property owner given as they have no rights to approve or deny a project?
- c. The CRC rule against cantilevering a roof line into the sixty-foot (60') setback on the oceanfront should be reviewed. Cantilevers used to be allowed, but that rule was abused with excessively long cantilevers. Applying a cap on cantilever extension; for example, allowing a two foot (2') maximum cantilever extension would allow for a small encroachment but avoid the problem of excessive cantilevers into the setback zone.
- d. CRC rules as posted on the web on coastal development are difficult to navigate for the average person planning a project. A summary or step by step guide of some sort would be helpful.
- e. Some of the CRC rules are vague or not self-explanatory. The examples below are left up to interpretation; as well as to the official who makes the final call when interpretation is needed:
 - 1. The rule allowing the impervious surface to be covered if more than 30% then "innovative design" is submitted – what is an "innovative design?"
 - 2. The rule prohibiting disturbance to other dunes unless it's not practical to build. What is considered "not practical"?

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- f. The rule prohibiting placement of sand on the backside of a frontal dune seems counterproductive to beach stabilization. One would assume adding sand to the frontal dune would only increase the stability and protection the dune provides. In discussions with CAMA officials; it appears many are unclear why this rule is in effect or the history of why it was written.
- g. The rules regulating the size of sandbags and use of geotubes should be reviewed because alternatives are more effective and economical. If you are using sandbags to protect one house it would make sense to use 3'X5' sandbags, but if you are protecting a whole row of houses it would make sense to use geotubes instead of larger sandbags. Use of geotubes for the NTB north end revetment would have been the best and most cost-effective solution rather than stacks of large sandbags that can be moved out of alignment by strong ocean waves.
 - i. The issue of when large sandbags or geotubes can be removed seems to be a CRC concern but the ease of cutting the exposed fabric and removing that part of the geotube fabric above the sand surface makes aesthetics a non-issue.
- h. When a CAMA major permit is required to construct a seawall because of some form of sea grass, require that the questionable grass be transplanted to areas agreed to during the permitting process rather than on inspection of project.
- i. Allow wider, public-finger docks to conform with guidelines for providing access to persons with disabilities.

2. Suggested Changes to Proposed CRC Rule Changes:

- a. The proposed bill exempting all sediment criteria rules from Cape Lookout, Diamond and Frying Pan Shoals is a concern as it may reduce standards. We caution CRC about possible support of any kind of project with no testing as dredge materials may not be suitable for beach nourishment.
- b. The requirement of a multibeam survey of potential borrow areas should be looked at because these surveys are expensive and in some cases, are not necessary. At times the older method of coring will give better data due to the nature of the sediment profile.

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3. NC Wildlife Federation and Proposed Rule for Secondary Nursery Areas:

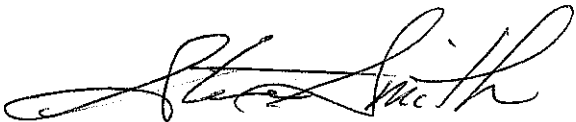
- a. The proposed regulations to reduce and restrict shrimp trawling would have a drastic effect on the NC Seafood Industry as well as shoreline protection.
 - i. The proposed regulations designating all coastal waters other than primary nursery areas, as secondary nursery areas that extend 3 miles offshore will add another layer of comments needed from the various agencies during the CAMA permitting process.
 - ii. The secondary nursery area regulation should be altered to specific areas based on fisheries biology rather than all coastal waters not in a primary nursery area.
 - iii. It was also noted that if shrimping is limited to three (3) days a week and daytime only, it will decimate the NC shrimping industry.

4. Other Issue:

- a. In some cases, the State does not have enough certified engineers available to evaluate CAMA permit requests. Possible solution would be to accept the certified seal of the private engineer who did the plan and project survey. Certified engineers must stand by their work legally and professionally so relying on the certified stamped studies and plans submitted by the applicants would save time and money for the State.

If the TISPC can be of any assistance, please contact me. We also wish you the best as Chairwoman of the CRC.

Regards,



**Steven G. Smith, Chairman
Topsail Island Shoreline Protection Commission**

cc: Michael Moore, CRAC member
Mayors: North Topsail Beach, Surf City & Topsail Beach
TISPC Members

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