



## CMAST'S NEW RESIDENTIAL DIGS

CMAST's new residential facility, *CMAST Coastal Quarters*, officially opened this spring with the second class of the annual Semester @ CMAST program.

The need for housing to support visiting faculty, undergraduates, and staff was part of the original vision for CMAST while it was still in the conceptual stage in the 1990's. The lack of housing was considered a barrier to the development of an undergraduate program where NC State students could reside at the coast, and not only take CMAST-based courses unique to NC State, but also take advantage of the many experiential learning, research and internship opportunities offered.

After several external reviews of the CMAST Facility and Programs during 2008-09, the upper administration within NC State recognized the many opportunities that on-site housing would bring to CMAST Programs. In 2015-16, NC State and CMAST acquired the 13-unit Apartment Complex in Morehead City now known as *CMAST Coastal Quarters*.

After extensive renovation, the second class of undergraduates with the Semester@CMAST Program were able to move in and get settled for their intensive course and field work.

"*CMAST Coastal Quarters* has been a game-changer for our CMAST Programs—it expands the capacity of CMAST to support undergraduate programming, as well as the research and extension enterprise," stated Dr. David Eggleston, CMAST Director. "We are also excited that the Coastal Quarters can become a destination for the *Living and Learning Village* concept at NC State, and provide a housing option for experiential learning programs outside of NC State. We are also very grateful for this very important investment by NC State University in CMAST".



**Semester @ CMAST students relax in the CMAST Coastal Quarters**



## FROM THE DIRECTOR

An important challenge to the growth of CMAST programs was overcome in January 2017, when the CMAST Coastal Quarters housing complex was open to our Spring, 2017 cohort of Semester@ CMAST Program undergraduates.

In this issue of the CMAST Newsletter, we highlight this new housing complex, and the impact it is already having on our programs. Housing for visiting faculty, staff and students has been a constant challenge since CMAST opened in 2000. The need for housing at the coast is especially challenging during summer months when there is very high demand by researchers and students for field courses, and local housing options are limited and very expensive. The addition of the CMAST Coastal Quarters is helping CMAST (1) enhance the success of our students through educational innovation, such as the Semester@CMAST Curriculum for undergraduates, and (2) enhancing scholarship and research by investing in faculty and infrastructure. Both of these outcomes are key ingredients of NC State University's Strategic Plan, The Pathway to the Future 2011-2020.

In this issue, we also launch a new feature that will highlight our graduate students and College of Veterinary Medicine Residents working at CMAST. In this case, we spotlight the research being conducted by Jacob Krause on fisheries ecology of weakfish, as well as the path that led him to become a scientist and enroll at NC State. Lastly, I invite you learn more about us through our web-site, keep up with CMAST via Facebook and Twitter, visit our beautiful facility located on Bogue Sound in Morehead City, or contact any of our faculty, staff or students with any questions.

With best wishes,

Dave Eggleston

 facebook.com/NCSTU.CMAST

 twitter.com/CMAST\_NCSU

 instagram.com/cmast\_ncsu



### Location

Located 0.5 miles from CMAST in Morehead City, the *CMAST Coastal Quarters* is a 13-unit, 12,000 sq. ft. Apartment Complex. There are 9 two bedroom duplex units with the kitchen, washer/dryer, living room, and ½ bath on the first floor, and two bedrooms with attached bathrooms and closet spaces on the second floor.

There are two single bedroom units with full kitchens, washer and dryer and 1 ½ baths (units 10, 12 and 13), and one additional 1 bedroom unit that can accommodate ADA needs (unit 11)

All units have WiFi, and adequate parking is available at no additional charge.

### Need and Use

Housing is necessary to (1) provide cost-effective lodging on a short-term basis, which will allow students to gain valuable educational and hands-on research experiences at the coast, (2) allow faculty to better use CMAST as a teaching and research tool, and (3) create a living and learning environment at CMAST where visiting faculty, staff and students bring new energy to and exchange ideas with CMAST Programs.

### Management

*CMAST Coastal Quarters* is managed by NC State University's Campus Housing program, within the Division of Academic and Student Affairs. The property is managed locally by Chalk & Gibbs Real Estate in Morehead City, with back-up support from CMAST Facilities.

### Session and Semester Rates

FY18 (starting July 1, 2017) for 2 people per room: \$2,990 /semester, \$635/summer session.

FY18 (starting July 1, 2017) for 1 person per room: \$3,390 /semester, \$685/summer session.

### Daily Rates

Staying less than 5 days, \$125/night/apartment (to begin July 1, 2017). Staying 5 days or more, \$35/night/person.

### Reservations

All housing requests should be made via the web-link and the corresponding form with is available on the CMAST webpage, [cmast.ncsu.edu](http://cmast.ncsu.edu), under "About Us."

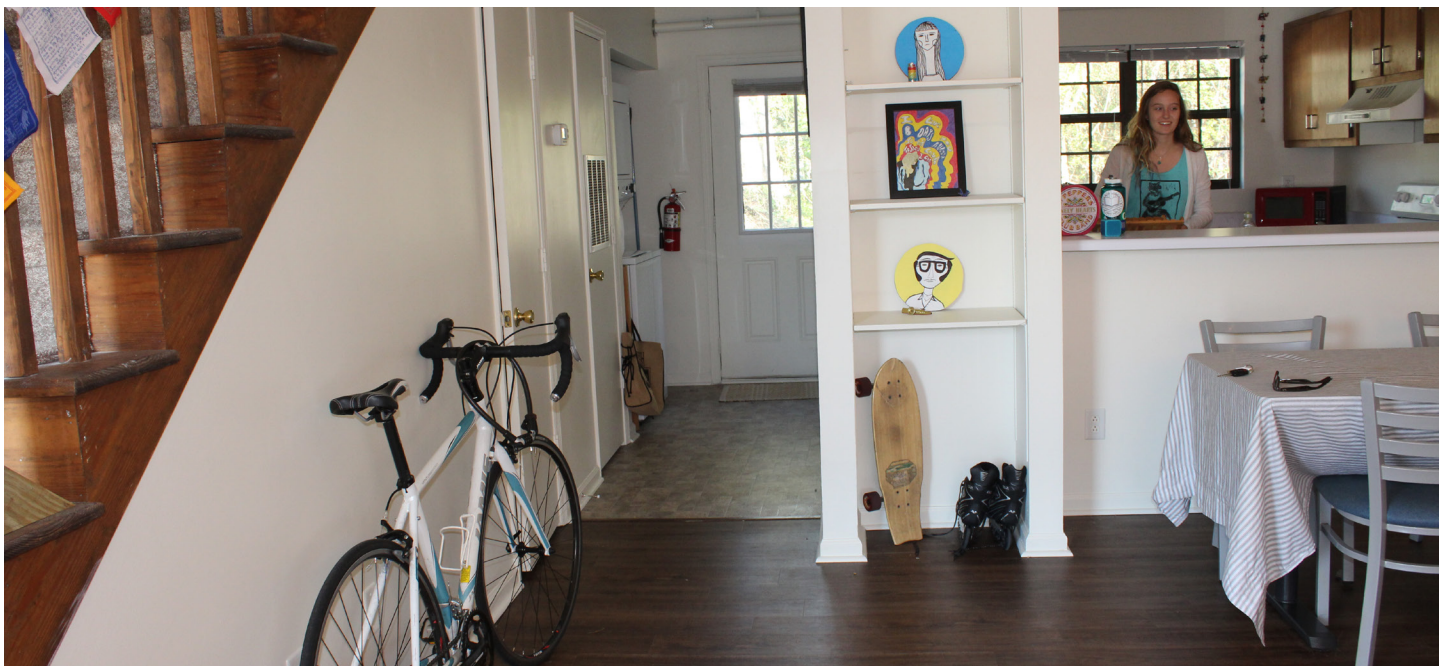




Each unit features a kitchen stocked with essential appliances and utensils.



***CMAST Coastal Quarters*** gives students and visiting faculty a home away from home to concentrate on studying and field work.



***CMAST Coastal Quarters*** are just a half mile from the **CMAST** facility.



## Get to know our students!

CMAST is excited to launch a new feature in our newsletter where we will be highlighting our graduate students and residents working at CMAST.

### Spotlight on...Jacob Krause



#### ***Describe the path that led you here.***

I have always been fascinated with water. That fascination led me to work at a bait shop on a lake near my home in Pewaukee, WI. That is where I got my first interaction with fisherman and learned practical skills such as running boats and using power tools.

I went to a small liberal arts college called Wisconsin Lutheran College where I tried a variety of majors like philosophy and business, but I found biology the most to my liking.

My advisor saw my enthusiasm and aptitude in aquatic biology and hired me to work on ecological monitoring projects. These included working in electricity generating stations to count fish being sucked into the cool water intakes, assessing invasive plant growth in lakes, and monitoring marine protected areas on the island of Grenada.

After my undergraduate years, I spent one year traveling around the world. After returning to the United States, I ap-

plied and was accepted at South Dakota State University for master's work. I worked on assessing the health of small streams based on their fish communities and understanding the ecology of northern pike that lived in those same streams.

After finishing my MS degree, I worked a summer with the U.S. Fish and Wildlife Service collecting samples from Lake Michigan salmon that were used to assess the amount of natural reproduction as compared to stocking. That summer, I also applied to North Carolina State University for my PhD to work on weakfish under Dr. Jeff Buckel and Dr. Joe Hightower.

For me, the appeal of this project was the people I would work with and the fact that the findings of my research would be used by those that manage weakfish.

#### ***Describe the work you are doing now.***

Weakfish abundance has been in decline for the last 10 years and the reasons for

that decline are still unknown. My research focuses on the possible reasons for the decline, which include estimating both fishing and natural mortality. Fishing mortality is estimated from the number of conventionally tagged returned fish from both commercial and recreational fishermen. Natural mortality consists of predation (e.g. dolphins, spiny dogfish, striped bass) or environmental events (e.g. pollution), and can be estimated by tracking fish. The knowledge gained from this study will allow weakfish stock assessment scientists to better manage the species.

#### ***What are your goals for the future?***

I would like to use my expertise and skills to teach at a university and continue my research to answer questions directly applicable to resource management.

#### ***Where are you in your degree?***

I am 3.5 years into my degree and I expect to finish in summer 2018.

#### ***When did you come to CMAST, and what have been some key experiences you've had working here?***

I arrived at NC State's main campus in August 2013 and moved to CMAST in May 2014.

Living and working near the water has allowed me to become more attuned to the happenings in nature around me. So much of my work is tide-, wind-, and temperature-dependent and I have to be constantly aware of nature to safely and efficiently conduct my research.

CMAST has been an awesome place to conduct my research because of the proximity to my study sites, the diversity in fisheries projects, and the people who work here.