

**COMMISSION ON UNIVERSITY SUPPORT  
MEETING  
March 17, 2022  
In-Person at 1045 Pamplin Hall and Videoconference (via Zoom)**

**Present:** Judy Alford, John Benner (Chair), Alisha Ebert *for Bob Broyden*, Holly Carroll, Martha Glass, William Dougherty *for Scott Midkiff*, Debbie Greer *for Ken Miller*, Ariel Heminger, Polly Middleton, Jim Tokuhisa,

**Absent with Notice:** Charles Phlegar, Connie Stovall, Paul Winistorfer

**Absent:** Michael Borowski, Chris Kiwus, Jeff Earley, Kimani Jackson, Bradley Klien, Patrick Pithua

**Guests:** Michael Schwarz, April Myers, Kari Evans, Kristina Cook, Janice Austin

**1. Welcome and Roll Call**

Commission Chair, John Benner, called the meeting to order at 2:00p.m.; initiated introductions and roll call. A quorum was present.

**2. Approval of Agenda**

Proper motion was made, seconded, and unanimously carried to adopt the March 2022 agenda.

**3. Approval of the January 20, 2022 and February 17, 2022 meeting minutes**

These minutes have been voted on electronically and can be publicly accessed on the Governance Information System on the Web (<http://www.governance.vt.edu>).

**4. Old Business**

No old business for discussion.

**5. New Business**

Guest Speaker

Dr. Michael Schwarz, Director of the VA Seafood AREC presented an informative update on their program and the VT Coastal Collaborator. A copy of said presentation is incorporated herein and made a part hereof.

**6. Updates from Committee Representatives**

Campus Development Committee – No representative present for the meeting; no updates from the committee.

Energy and Sustainability Committee – Kristina Cook reported they met on February 28, 2022 and their next meeting is March 28th.

Updates:

- Green RFP Task Force finalized review, prioritized and presented the category 1 select proposals; committee approval secured at February meeting. Said proposals will now be presented to Vice President, Campus Planning, Infrastructure and Facilities, Interim Senior Vice President and Chief Business Officer and Office of Budget and Financial Planning.

- CAC implementation task forces are built out; these groups will meet and draft a work plan to present at their April 25th meeting.
- There have been two CAC Roadshows to date; one to DSA Leadership group and one to Office of Equity and Accessibility. Both were well received and future roadshows are expected.
- John Randolph, Interim Climate Action, Sustainability and Energy Director, introduced the Miro platform at a February 25 faculty group meeting. The concept is for a collaborative exchange of ideas and interests as it relates to the Virginia Tech climate action.
- Earth Week is April 17-23; there is a theme for each day and the planning forum is working with student, campus and community groups.

IT Services and Systems Committee – William Dougherty reported next full committee meeting currently scheduled for March 28. Committee focus has been use of Zoom; upcoming Google workspace changes, upgrades to the university voice system were finished January 2022; needs and plans for the greater DC metro area. The subcommittee continues is working on integrating messaging tools with the voice system. The significant upcoming project is the IT Transformation Initiative by Diolette. A steering committee has been established and the major initiative is to develop a Governance structure for the division. They are not currently under university governance structure.

Transportation and Parking Committee – Polly Middleton reported their last three meetings have been focused on budgetary matters. They have added members to be more inclusive.

## **7. Acceptance of Committee Minutes**

Campus Development Committee – No new minutes submitted to the Commission.

Energy and Sustainability Committee – The February 28, 2022 minutes were submitted to the Commission and were unanimously accepted and approved.

IT Services and Systems Committee – The IT Services and Systems Committee meeting October 11, 2021 minutes and ITSSC IT Infrastructure Subcommittee November 9, 2021 subcommittee minutes were submitted to the Commission and were unanimously accepted and approved.

Transportation and Parking Committee – No new minutes were submitted to the Commission.

## **8. Next Meeting Date**

Next meeting date is April 21, 2022 and will be by Zoom. Liza Morris, AVP for Planning and University Architect will be our guest speaker, presenting an update on the Campus Master Plan.

## **9. Adjournment**

There being no further business and with proper motion, the meeting adjourned at 2:39pm.

# VIRGINIA SEAFOOD AREC AND VT COASTAL COLLABORATOR

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HAMPTON VA



VIRGINIA TECH™

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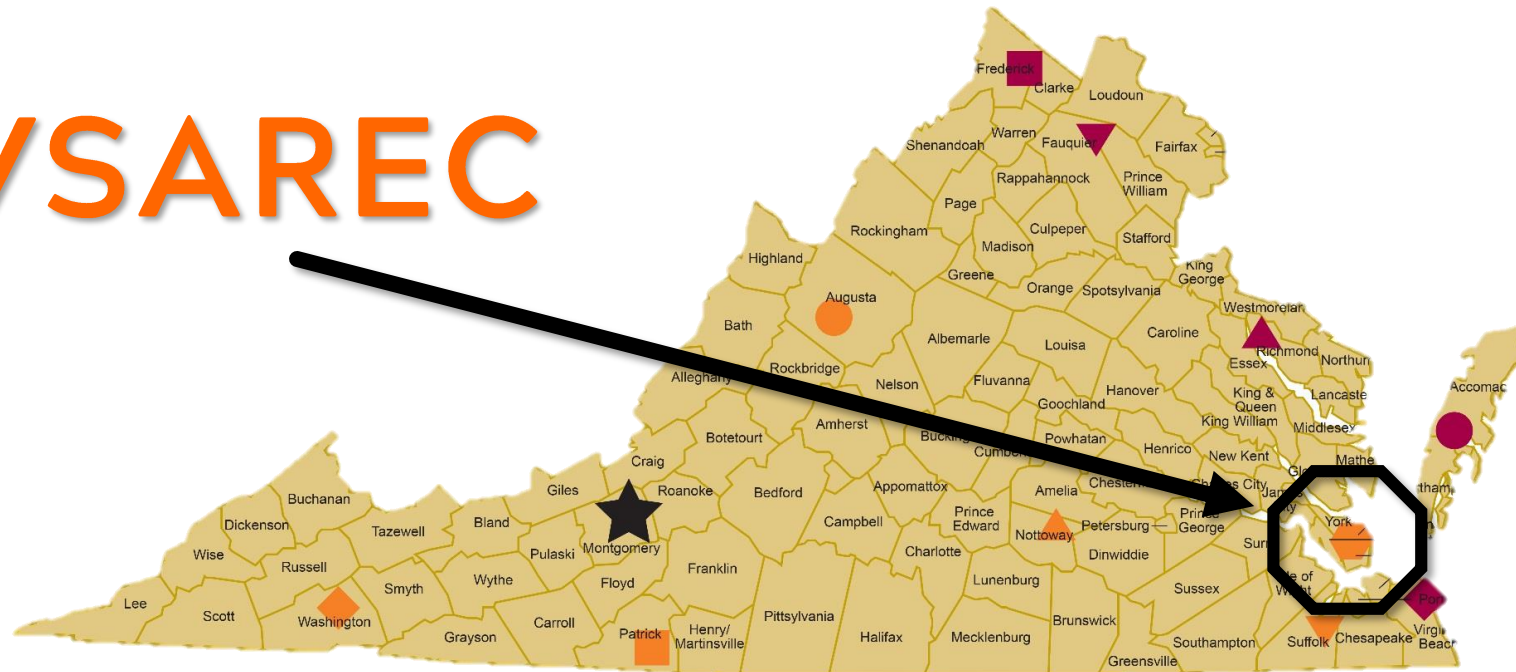


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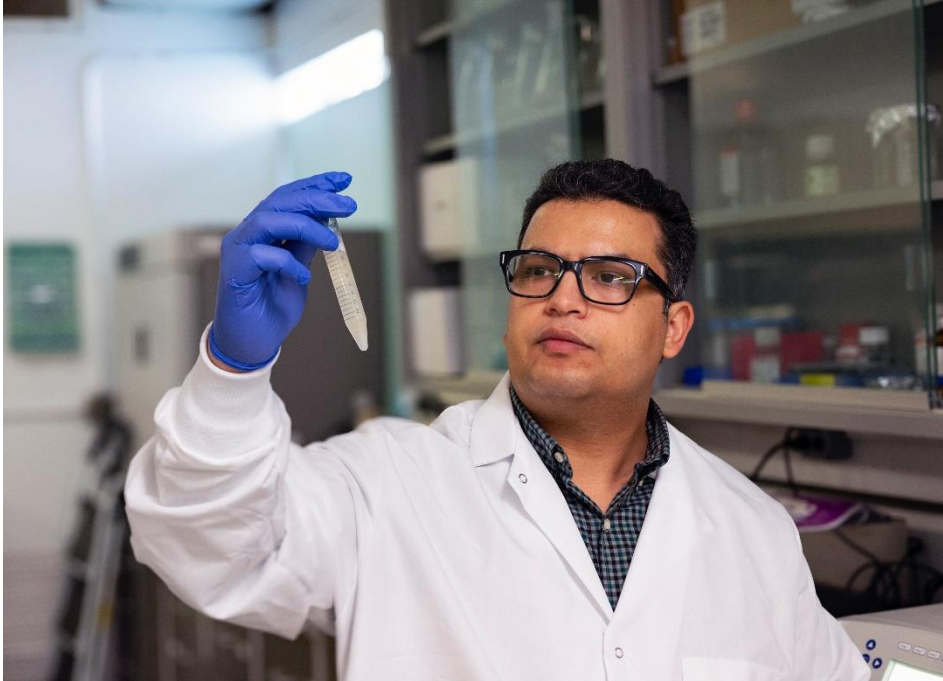


# Virginia Tech Experiment Station ARECs

## VSAREC







## Virginia Seafood AREC Mission

Provide education, scientific and technical guidance, support and leadership to the commercial seafood and aquaculture industries throughout Virginia and the United States.

# Team VSAREC



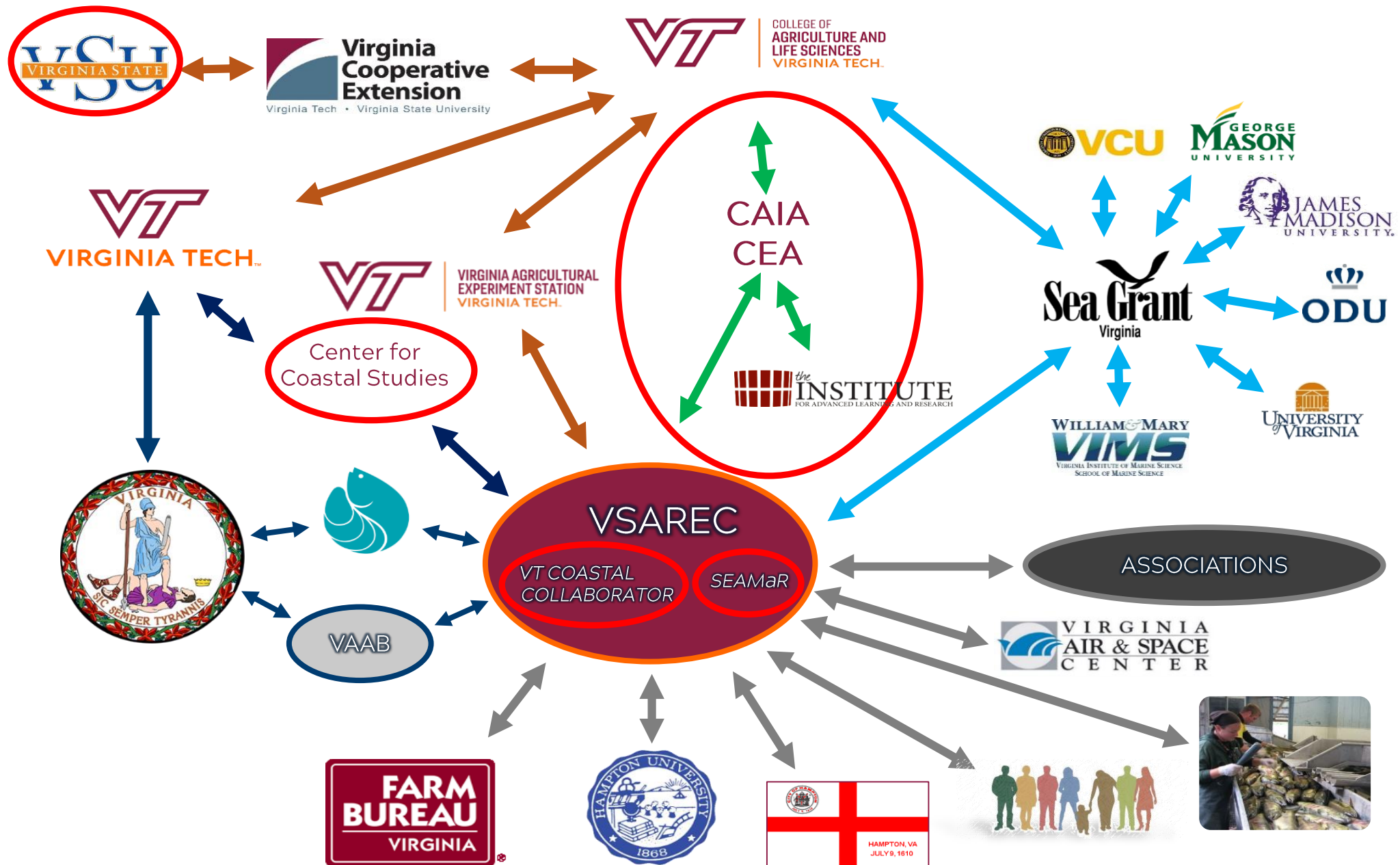
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# 2021 Students and Interns

*Onsite housing available.*







# VSAREC SUSTAINABLE AQUACULTURE



Lead - Dr. Michael Schwarz



## Applied Aquaculture R&D

**Marine:** cobia, black sea bass, flounder, yellow tail, red porgy, pompano, ornamentals. shellfish.



**Freshwater:** trout, tilapia, catfish, freshwater prawn, hybrid striped bass, ornamentals.





## Sustainable Aquaculture

### Training and Internships (250+)

- Undergraduate / Graduate students
- Industry
- Governor's School
- Workforce development

### Public Education

- Events
- Facility Tours
- K-12





# SEAFOOD QUALITY, SAFETY, AND CONSUMER EDUCATION



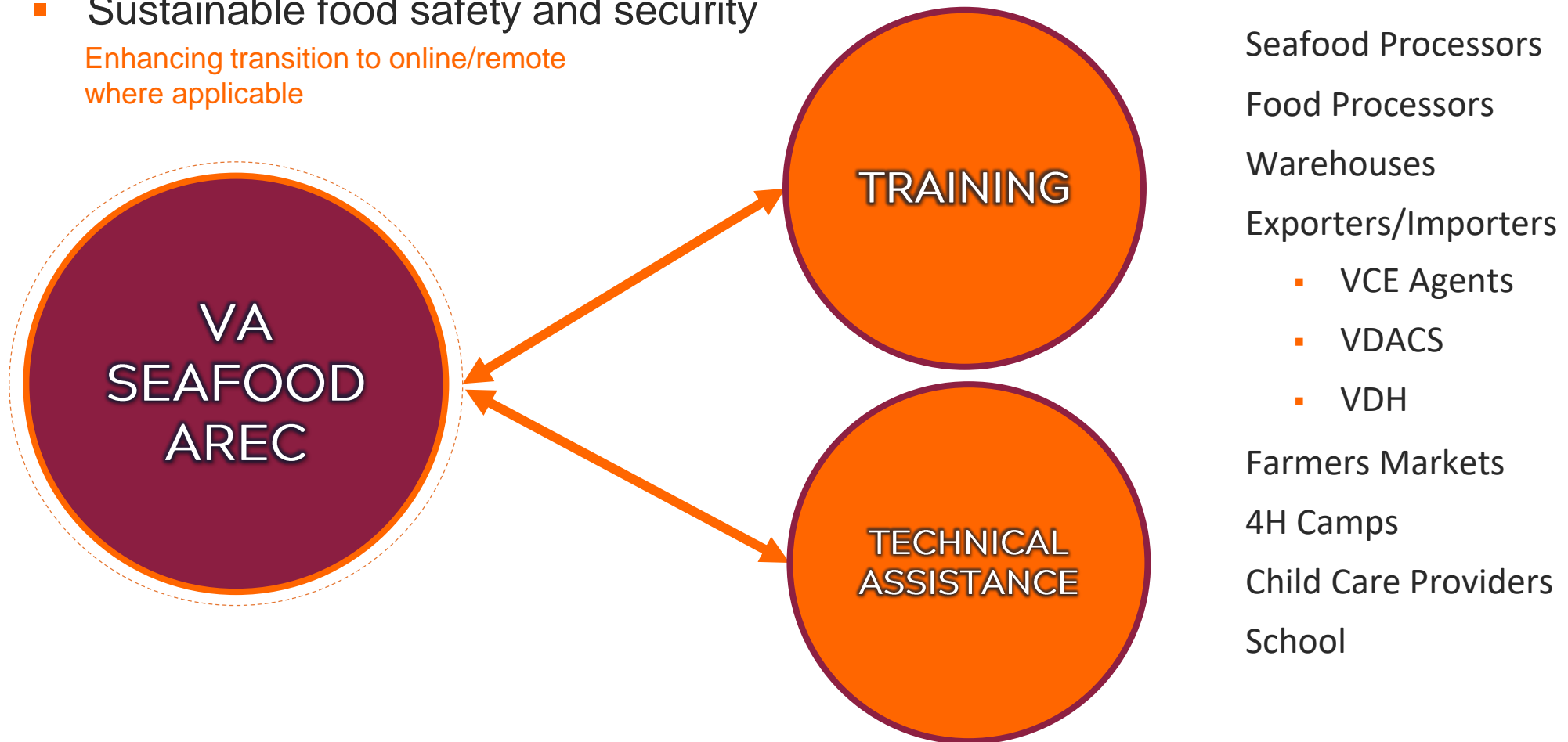
Lead - Dr. Katheryn Paraga-Estrada



# Seafood Quality, Safety, and Consumer Education

- Sustainable food safety and security

Enhancing transition to online/remote  
where applicable



## Seafood Quality, Safety, and Consumer Education



- GMP's
- HACCP
- FSMA
- Sanitation
- Allergen Controls
- ServSafe®
- Customized training
- Enhancing transition to online/remote where applicable
- Avg: ~ 60 companies/200 clients



# PROCESSING, VALIDATION, AND ENGINEERING (GREEN INDUSTRY)



Lead - Mr. Robert Lane



# Processing, Validation, and Engineering (Green Industry)

## Food Production/Processing Smart Technologies

- Food Process Validation
- Alternative Energy
- Smart Automation
- Food transportation and storage (FSMA)



# FUTURE FOODS LAB & CELLULAR AGRICULTURE INITIATIVE



Lead - Dr. Reza Ovissipour

# Future Foods Lab and Cellular Agriculture Initiative



Aquaponics  
& RAS  
Microbiome



Nanobubbles, and  
Photosensitizers



Antibiotic  
Resistant  
Bacteria

Surrogate  
Development





# Aquaponics/hydroponics

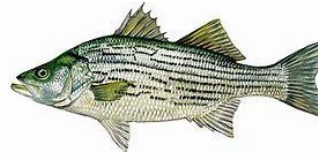
- Controlled Environmental Agriculture
- Sustainable food safety and security





## Sustainable Food Production Systems

- SmartFeeds in agriculture
- SmartFarm Innovation Network



Tidewater AREC  
Southern Piedmont AREC

## Alternative proteins and bioprocessing



Insects



Algae



Bioprocessing



# Sustainable Food Production Systems

## Alternative Seafood Products

### Plant-based seafood

- Micro and Macro algae

### Cell-cultured seafood

- Media optimization
- Black Sea Bass stem cells



# SEAFOOD ECONOMIC ANALYSIS & MARKETING RESEARCH



Lead - Dr. Jonathan van Senten

**SEAM<sup>a</sup>R**





## Seafood Economic Analysis & Marketing Research

Regulatory cost studies

COVID-19 impact studies

Financial benchmarking

Economic impact modelling

Consumer preferences

Program evaluation

Social license for aquaculture

Technology adoption  
(robotics & automation)

Offshore energy & aquaculture

Feasibility of emerging species



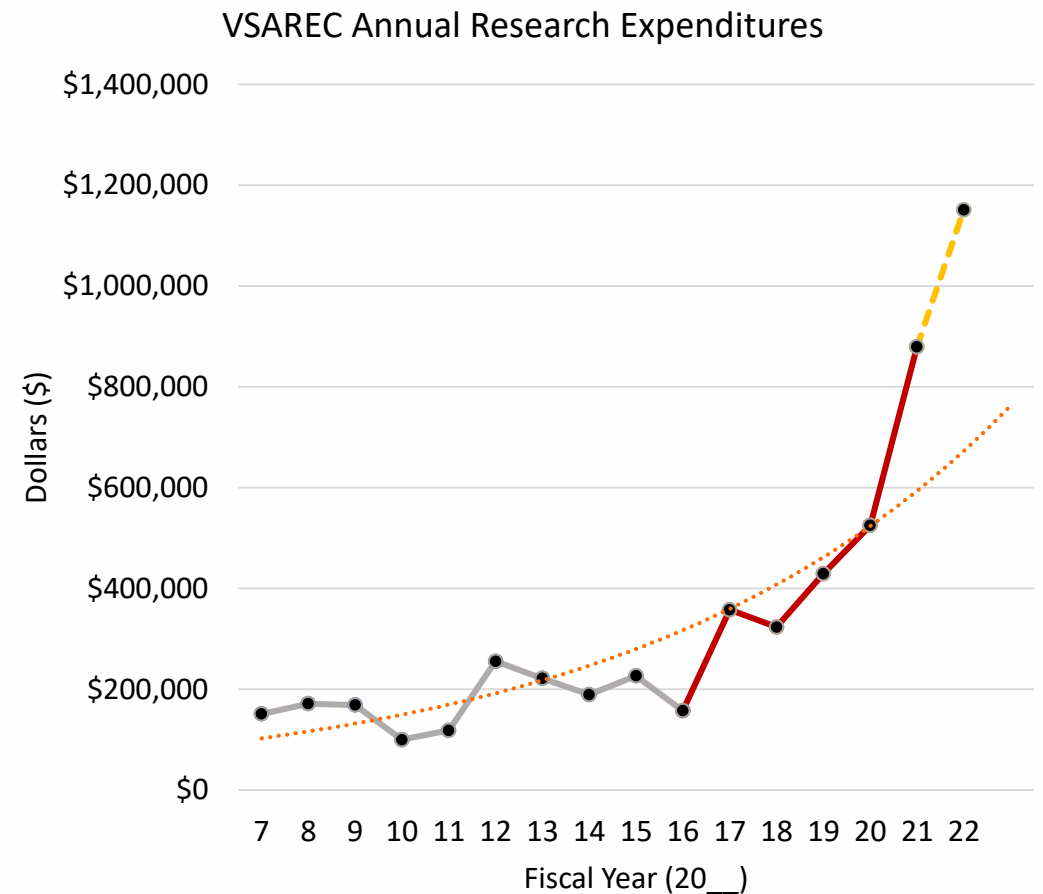
# VSAREC METRICS AND GROWTH



**2017:  
Implemented  
5-year goal of  
\$1 million/year**

## VSAREC RESEARCH EXPENDITURES

Success toward specific goals



# Strategic Future Directions

SEAMaR  
Coastal economics  
and policy



Controlled  
Environmental  
Agriculture



Cellular  
Agriculture



Coastal  
Resiliency





# Strategic Future Directions



Tidewater AREC  
Southern Piedmont AREC

(Bioprocessing)



COLLEGE OF ENGINEERING  
COLLEGE OF AGRICULTURE AND LIFE SCIENCES  
BIOLOGICAL SYSTEMS  
ENGINEERING  
VIRGINIA TECH.







# NEW FACILITIES

VIRGINIA  
SEAFOOD AREC

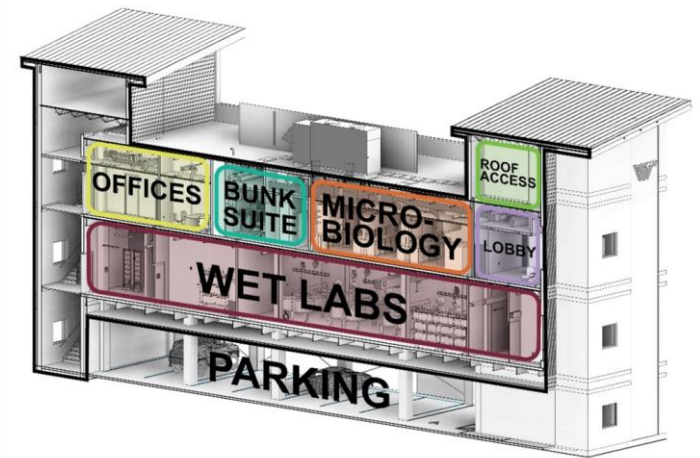






## New VSAREC

- Adjacent to Current Facility
- Anticipated move-in March 2022







# VT COASTAL COLLABORATOR





50+ faculty from 8  
out of 9 academic  
Colleges at VT

- College of Agriculture and Life Sciences
- College of Architecture and Urban Studies
- Pamplin College of Business
- College of Engineering
- College of Liberal Arts and Human Sciences
- College of Natural Resources and Environment
- College of Science
- Virginia-Maryland College of Veterinary Medicine

## Virginia Tech Coastal Collaborator (VTCC)

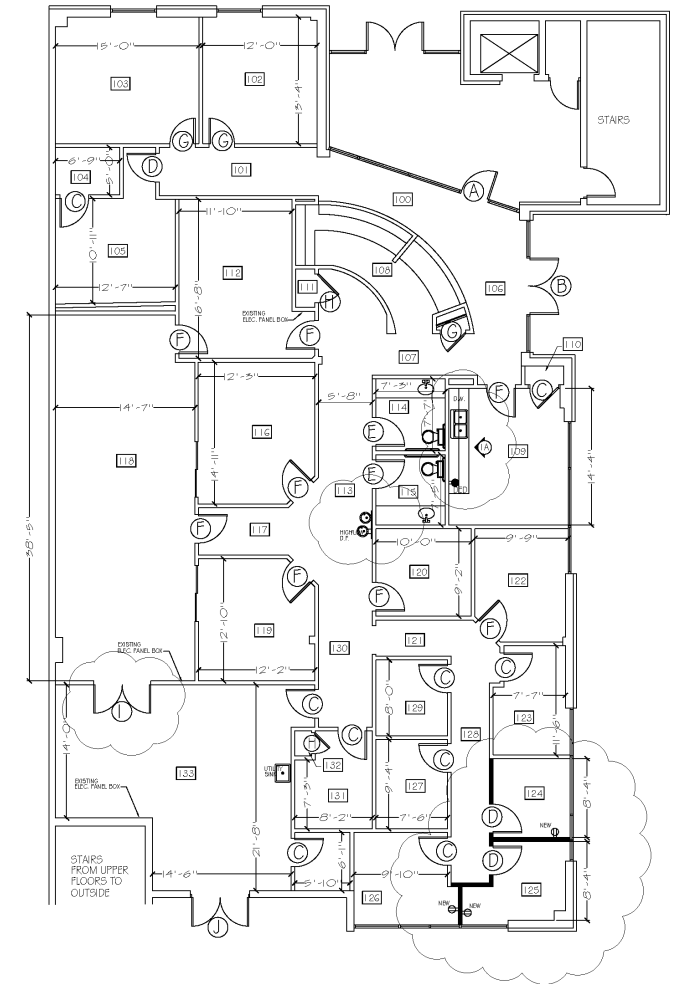


Supported by:

- Fralin Life Sciences Institute
- Center for Coastal Studies
- College of Engineering
- College of Agriculture and Life Sciences



# Virginia Tech Coastal Collaborator (VTCC)





THANK  
YOU



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