



SCHOOL OF MARINE & ATMOSPHERIC SCIENCES CONVOCATION

Celebrating the Class of 2021

FRIDAY, MAY 21, 2021



Dr. Judith Brown Clarke

Judith Brown Clarke, an award-winning thought leader and diversity advocate, serves as Chief Diversity Officer (CDO) and Vice President of Equity & Inclusion at Stony Brook University.

Dr. Clarke was Diversity Director of Bio-Computational Evolution in Action Consortium (BEACON) Science and Technology Center at Michigan State University, a NSF-funded research consortium of five institutions. She was responsible for the development, management and implementation of the seamless integration of diversity and inclusion strategies. Dr. Clarke designed and delivered cross-cultural, diversity and inclusion presentations, workshops, and learning modules; provided assistance, advice, coaching, and consultation to individuals and groups regarding cross-cultural conflicts and disputes as well as policies and practices.

Prior to her appointment with BEACON, Clarke served as the Director for the Office of Multicultural Affairs and Inclusion for the College of Communication Arts and Sciences at MSU, where she worked on the Dean's executive management team. For more than ten years prior, she worked in the Department of Health and Human Services as a Program, Policy and Contract Administrator and as a Children's Protective Services Investigator.

While at MSU, Clarke ran for and was elected as an at-large member of the Lansing City Council, and served in a leadership capacity as vice-president for two consecutive years (2014-15), and as president for one year (2016).

She has a very impressive history as an exceptional athlete, having been a US National Champion 4 time Gold Medal winner in 400-Meter Hurdles, won a silver medal in the 400m hurdles in the Olympics, and was a 3-time gold medal winner in the 400m hurdles in the Pan Am Games. She was also Sports Illustrated's Sports Woman of the Year.



Jim Gilmore

James (Jim) J. Gilmore, Jr. has more than 40 years of environmental experience both with DEC and in private industry. Prior to his work at the Department of Environmental Conservation (DEC), Jim worked as a fisheries biologist in a private consulting firm. He started his career with DEC as a marine resources specialist in DEC's Stony Brook office in 1986. Gilmore then established the first Marine Resources program in 1990 in DEC's Region 2, which encompasses all five counties that make up New York City, and then subsequently serving as Region 2's Natural Resources Supervisor.

A few of his notable achievements include the creation of comprehensive DEC natural resources programs in New York City, enhancement of urban fisheries and marine habitat programs, the New York City Environmental Fund grant program, and land acquisition in excess of \$100 million including Mt. Loretto Unique Area and St. Francis Woodlands.

At that time Gilmore also served as Emergency Response Coordinator in DEC's Region 2 Office and was essential in organizing the DEC's response on events including 9/11, the Con Edison steam pipe explosion on July 18, 2007, and several other events.

Jim became the Bureau Chief of Marine Resources in 2007, and was announced as the Director of the Division in April 2016. As the Division Director of Marine Resources, he has worked in cooperation with the Marine Resources Advisory Council, and is also an Executive Committee member of the New York Sea Grant Board of Directors. From 2018-2019, he served as Chairman of the Atlantic States Marine Fisheries Commission. He is an adjunct professor at SoMAS, and teaches a course in graduate level fisheries management.

Gilmore received a Bachelor of Arts degree in Biology from SUNY Plattsburgh and a Master's degree in Marine Science, Fisheries Management from SUNY Stony Brook in 1985.

**SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES
UNDERGRADUATE AND GRADUATE CONVOCATION
MAY 21, 2021**

Welcoming Remarks..... Dr. Paul Shepson, Dean

Convocation Address..... Dr. Judith Brown Clarke
..... Mr. Jim Gilmore

Awarding of Undergraduate Certificates

Atmospheric Programs Dr. Brian A. Colle, Advisor
 B.S. in Atmospheric and Oceanic Sciences

Marine Programs Dr. Kamazima M.M. Lwiza, Advisor
 B.A. in Environmental Studies
 B.S. in Marine Sciences
 B.S. in Marine Vertebrate Biology

Sustainability Programs Dr. Katherine Aubrecht, Director
 B.S. in Coastal Environmental Studies
 B.A. in Ecosystems and Human Impact
 B.A. in Environmental Design, Policy and Planning
 B.A. in Environmental Humanities
 B.A. in Sustainability Studies

Undergraduate Research Honors

Stony Brook Alumni Association Dean's Choice Awards Ms. Kristin Matthews
Interim Director of Alumni Operations

Petra M. Udelhofen Memorial Scholarship Award..... Dr. Brian A. Colle

Timothy Magnussen Memorial Scholarship..... Dr. Brian A. Colle

Nuria Protopopescu Memorial Award for
Excellence in Teaching..... Dr. Robert C. Aller

Pikitch Family Endowed Student Research Award Dr. Ellen K. Pikitch

Awarding of Masters and Doctoral Certificates

Master of Arts in Marine Conservation
and Policy Certificates Dr. Ellen K. Pikitch, Advisor

Master of Science and Doctoral Certificates in
Marine and Atmospheric Sciences Dr. Jackie L. Collier

Best Thesis/Dissertation Award

Closing Remarks..... Dr. Paul Shepson, Dean

CANDIDATES FOR UNDERGRADUATE DEGREE

Bachelor of Science in Atmospheric and Oceanic Sciences

Darlene Dittell

Kevin J. Rodriguez

Jose Gerez

Audrey Sinclair

Jenna Hans

Timothy Skula

Austin Reed

Bachelor of Arts in Environmental Studies

Matthew Arasmo

Victoria Kopij

Samantha Ayala

Ashley Maggy

Ashley Beltran

Jenise McLaughlin

Aubrey Blanthorn

Alyssa Ng

Martha Braun

Jessica Prosser

Alexander Calaci

Laura Roesch

Douglas Clare

Alex Schweitzer

Sean Daly

Melanie Shaw Smith

Emily Daniels

Brandon Spiciarich

Austin Davidson

Gillian Steger

Natasha Ferreira

Michael Streit

Alex Frabizio

Carlos Vallejo

Lauren Hoffman

Christian Van Deusen

Sabrina Holsborg

Christopher Werni

Thomas Jensen

Minor in Environmental Studies

Eileen Chen

Jack O'Brien

Elizabeth Gouvis

Elif Onay

Caitlyn Hayes

Meaghan Sullivan

Brayden Joyce

Sadie Woloson

Brianne Ledda

Callias Zeng

Annie Lin

Yin Zheng

CANDIDATES FOR UNDERGRADUATE DEGREE

Bachelor of Science in Marine Sciences

Margaret Bradley	Molly Mai
Emilee Delorenzo	Jason Mirtsopoulos
Ava Demayo	Danielle Morris
Leeanne Dion	Benjamin Nichols
Kristi Flanigan	Sascha Rosin
Quinn Foster	Meaghan Sullivan
Alessandra Giza	Julia Sweeney
Brendan Hallinan	Alessandra Tempestoso
Clara Haughey-Gramazio	Sarah Wittenburg
George Kalantzopoulos	Sadie Woloson
Jennifer Katz	Lucas Wong
Jeffrey Kraemer	

Minor in Marine Sciences

Miranda Jacobsen	Zachary Pablo
Thomas Jensen	Jessica Semel
Emily Masters	Brandon Spiciarich
Isaac Nikolic	Thomas Whitbread

Bachelor of Science in Marine Vertebrate Biology

Sydney Bell	Alexandria McGory
Muriel Bingham	George Monez
Ashley Caldararo	Emily Pica
Kiyiana Downer	Sandra Reyes
Ryan Durie	Alexandra Stevens
Anastasiya Gofman	Max (Dianqing) Sun
Sarah Jacobson	Fay Vail
Faith Kellum	Claire Vervack
Nancy Liang	Maya Voytelmgum
Christina Lipari	Joshua Whitehead
Margaret Martella	Xin Zhu
Robert May	

CANDIDATES FOR UNDERGRADUATE DEGREE
Bachelor of Science in Coastal Environmental Studies

Anastassia Amato-La Hoz	Callan Green
Joseph Burroso	Robert Marino
Paul Buschman	Mashyat Tomoroy
Nicholas Carl	

Minor in Coastal Environmental Studies

Jessica Berino	Jeffrey Kraemer
Brendan Hallinan	

Bachelor of Arts in Ecosystems and Human Impact

Savannah Cabrera	Jacob Murphy
Jeremy Crane	Catherine Sander
Alyssa Diodato	

Minor in Ecosystems and Human Impact

Sydney Bell	Nina Gu
Muriel Bingham	Zachary Lee
An Qi Chen	Isabelle Loop
Emily Daniels	Emily Puleo
Megan Gallagher	Leora Simon

Bachelor of Arts in Environmental Design, Policy and Planning

David Blasen	Huiqi Pan
Nolwenn Cardoso Joao	Sai Peng
Alyssa Chao	Nayarit Tineo
Julia Chapman	Dante Vigliotti
Leyi Chen	Olivia Volz
Matthew Coletta	Dong Xia
Diego Ferreras	Huifei Yao
Emily Lai	

Minor in Environmental Design, Policy and Planning

Erik Cambria	Chrisanthi Kourouklis
Kathryn Casal	Nancy Liang

CANDIDATES FOR UNDERGRADUATE DEGREE

Bachelor of Arts in Environmental Humanities

Megan Gallagher

Robert Tucholski

Abigail Ruiz

Minor in Environmental Humanities

Hamdan Noor

Bachelor of Arts in Sustainability Studies

Nicholas Baball-Khan

Laura Osa

Casey Barfield

Anthony Otters

Leyi Chen

Emily Puleo

Shuiab Folarin

Kathryn Rebollo

Bryan Friebe

Kaylee Surace

Morgan Jacobellis

Trinity White

Isaac Nikolic

Minor in Sustainability Studies

Matthew Coletta

Emily Schalkham

Analiese Diaz

Nayarit Tineo

Lena Fuller

Maya Voytelmgum

Minor in Geospatial Science

Enid Berisha

Alyssa Ng

David Blasen

Sai Peng

Martha Braun

Sandra Reyes

Matthew Coletta

Julia Sweeney

Henry Gobrick

Christopher Werni

Jennifer Katz

Lucas Wong

UNDERGRADUATE HONORS

Degrees of Distinction

Undergraduate Research Honors

Alyssa Diodato

*Spatial Patterns of Non-native Wineberry (*Rubus phoenicolasius*)
In the Ashley Schiff Preserve Inform Restoration Strategies*

Dr. Sharon Pochron, Advisor

Morgan Jacobellis

*AMPA (α -amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid) Affects the
Regeneration Rate of the Planarian (*Dugesia tigrina*)*

Dr. Sharon Pochron, Advisor

Jeffrey Kraemer

*Does Diel Cycling Provide Refuge from Hypoxia and
Acidification in 1st Stage Blue Crab Larvae*

Dr. Christopher J. Gobler & Stephen Tomasetti, Co-Advisors

Nancy Liang

*Changes in Heart Rate of American Horseshoe Crab
(*Limulus polyphemus*) in Response to Environmental Conditions*

Dr. Robert M. Cerrato, Advisor

UNDERGRADUATE AWARDS

Stony Brook Alumni Association Dean's Choice Award

Atmospheric Sciences	Austin Reed
Coastal Environmental Studies	Paul Buschman
Ecosystems & Human Impact	Alyssa Diodato
Env Design, Policy & Planning	Matthew Coletta
Environmental Studies	Laura Roesch
Environmental Humanities	Megan Gallagher
Marine Sciences	Brendan Hallinan
	Jeffrey Kraemer
Marine Vertebrate Biology	Claire Vervack
Sustainability Studies	Laura Osa

Petra M. Udelhofen Memorial Scholarship Award

Julia Tetrault

Timothy Magnussen Memorial Scholarship

Grace Ahn
Miles Litzmann

GRADUATE AWARDS

Nuria Protopopescu Memorial Award for Excellence in Teaching

Madison Muehl

Pikitch Family Endowed Student Research Award

Adelle Molina

CANDIDATES FOR GRADUATE DEGREE

Master of Arts in Marine Conservation and Policy

Amy Bavosa

Camilla Piechocki

Christopher Biondi

Sydney Randall

Nicole Dergosits

Steven Silverman

Amanda Hanifin

Christine Suter

Master of Science in Marine and Atmospheric Sciences

Sherif Abdallah

*Transcriptomic Characterization of Hemocytes from
Different Body Fluids of the Eastern Oyster, Crassostrea virginica*
Dr. Bassem Allam, Advisor

Benjamin Bacon

A Microphysical Analysis of the January 4, 2018 Blizzard
Drs. Brian A. Colle & Pavlos Kollias, Co-Advisors

Colin Benitt

*The Ability of Native and Invasive Rhodophytes
(Gracilaria tikvahiae and Dasysiphona japonica)
to Inhibit Harmful Algal Blooms Caused by
Aureococcus anophagefferens (Pelagophyceae)*
Dr. Christopher J. Gobler, Advisor

Nathaniel Chester

*Effects of Environmental Variability on Ribbed Mussel Ecophysiology
Informed by High-frequency Non-invasive (HFNI) Sensors*
Dr. Nils Volkenborn, Advisor

Dylan Cottrell

*Eelgrass Responses to Mesograzers-epiphyte Interactions at the
Shallow and Deep Edge: Paired Observational and
Experimental Structural Equation Models*
Dr. Bradley J. Peterson, Advisor

CANDIDATES FOR GRADUATE DEGREE

Master of Science in Marine and Atmospheric Sciences

Jacob Flanzenbaum

Assessing the Composition and Limiting Nutrients of Harmful Cyanobacteria blooms in Cabrera's and Prospect Park Lakes

Dr. Christopher J. Gobler, Advisor

Keenan Fryer

Impact of Mesoscale Data Assimilation on the Primary Snowband Within the Cyclone Comma Head

Dr. Brian A. Colle, Advisor

Dallas Jordan

Divergent Postbreeding Spatial Characteristics of Sympatric Albatross Species in the North Pacific

Dr. Lesley Thorne, Advisor

Benjamin Kiel

Comparison of Clustering Approaches in a Multimodel Ensemble for U.S. East Coast Winter Storms

Dr. Brian A. Colle, Advisor

Mateo Mezic

Benefit/Cost Estimation Instruments for Storm Surge Sea Gates, Long Island NY

Dr. Malcolm J. Bowman, Advisor

Holly Rucker

Habitability of Eridania Lake: An Ancient Mars Lacustrine Hydrothermal Vent, Compared to an Icelandic Analogue Fjord Site

Dr. Roy E. Price, Advisor

Christopher Seslar

Evaluating the Economic Impact of Water Quality Changes on Recreational Fisheries in the Long Island Sound

Drs. Anthony Dvarskas & Donovan Finn, Co-Advisors

Nora Straquadine

*The Ability of Asian clams (*Corbicula fluminea*) and Eastern oysters (*Crassostrea virginica*) to Filter and Accumulate Toxins*

Associated with Bloom-Forming Cyanobacteria

Dr. Christopher J. Gobler, Advisor

CANDIDATES FOR GRADUATE DEGREE

Master of Science in Marine and Atmospheric Sciences

Noah Strycker

*A Global Population Assessment of the
Chinstrap Penguin (*Pygoscelis antarctica*)*

Dr. Heather J. Lynch, Advisor

Christopher Wozny

*Mitigation of Eutrophication Through Restoration:
Denitrification Potential of Hard Clam (*Mercenaria mercenaria*)
Spawner Sanctuaries in Long Island Estuaries*

Dr. Christopher J. Gobler, Advisor

Magdalena Wrobel

The Sensitivity of Coastal Morphology to Climatic Variables

Dr. Henry J. Bokuniewicz, Advisor

Maren Mitch

Doctor of Philosophy in Marine and Atmospheric Sciences

John Bohorquez

*Research, Design, and Application of
a Financial Sustainability Assessment Tool for
Marine Protected Areas*

Dr. Ellen K. Pikitch, Advisor

Justin Bopp

*Population Dynamics, Movement Patterns, and Resource Use
of American Horseshoe Crabs (*Limulus polyphemus*)
Across Spatial and Temporal Scales*

Dr. Robert M. Cerrato, Advisor

Patricia Clyde

*Occurrence and Fate of Pharmaceuticals and
Personal Care Products in Nitrogen Removing Biofilters*

Drs. Bruce J. Brownawell & Roy E. Price, Co-Advisors

Ashley Cohen

*Particle-Associated Microbial Processes in Permanently Anoxic Fayetteville
Green Lake, Fayetteville, NY: a Window to the Mid-Proterozoic Ocean*

Dr. Gordon T. Taylor, Advisor

CANDIDATES FOR GRADUATE DEGREE

Doctor of Philosophy in Marine and Atmospheric Sciences

Tara Dolan

*Population Diversity, Connectivity and Resilience in Winter Flounder
(Pseudopleuronectes americanus)*

Drs. Michael G. Frisk & Anne E. McElroy, Co-Advisors

Sabrina Geraci-Yee

*Taking the "X" out of QPX disease: Distribution and Dynamics of the
Hard Clam Pathogen, Mucochytrium quahogii
(formerly QPX = Quahog Parasite Unknown)*

Drs. Jackie L. Collier & Bassem Allam, Co-Advisors

Molly Graffam

*Hydro-Biogeochemical Dynamics in Woodchip-Based Subsurface Barriers:
Implications for Nitrogen Removal and Pollution Swapping*

Dr. Nils Volkenborn, Advisor

Evan Ingram

*Movement Ecology of Juvenile and Sub-adult Atlantic Sturgeon
in the Hudson River and New York Bight*

Dr. Michael G. Frisk, Advisor

Kylie Langlois

*Ecology of Nitrogen-Removing Microbial Communities
and Applications to Wastewater Treatment*

Dr. Jackie L. Collier, Advisor

Jienan Li

*Multiphase Chemical Kinetics of OH Radical Uptake by
Amorphous Organic Aerosols at Typical Tropospheric Temperatures*

Dr. Daniel A. Knopf, Advisor

Xi Lu

*Photochemical Mineralization of Marine Refractory Dissolved Organic Carbon
(RDOC): Method Evaluation and Optimization*

Dr. Steven R. Beaupré, Advisor

Seanna Mallon

*Multiphase Oxidation and Photochemistry of
Biomass Burning Aerosol Proxies: Kinetics and Products*

Dr. Daniel A. Knopf, Advisor

CANDIDATES FOR GRADUATE DEGREE

Doctor of Philosophy in Marine and Atmospheric Sciences

Samantha Nyer

*The Influence of Plants on Nitrogen Biogeochemical
Cycling in Constructed Wetlands*

Dr. Roy E. Price, Advisor

Mariana Rius

*Evolutionary Origins, Regulation, and Function of Carotenoid Biosynthesis
in the Marine Heterotrophic Eukaryote, *Aurantiochytrium limacinum**

Drs. Jackie L. Collier & Joshua Rest, Co-Advisors

Jiabao Wang

*PNA-like MJO Teleconnections:
Metrics, Dynamical Processes, and Future Change*

Dr. Hyemi Kim, Advisor

Xiaoning Wu

*The Role of Tropical Cyclones in the Climate System:
An Exploration of Coupled Atmosphere-Ocean Aquaplanets*

Drs. Kevin A. Reed & Christopher Wolfe, Co-Advisors

Best M.S. Thesis Award

Noah Strycker

Best Ph.D. Dissertation Award

Jienan Li

Closing Remarks, Dr. Paul Shepson, Dean

