SEMI-ANNUAL

29TH

THE HONORS AND UNDERGRADUATE RESEARCH SCHOLARS POSTER PRESENTATION

WEDNESDAY, DECEMBER 5, 2018

11:00AM - 4:00PM
LIBRARY BUILDING GROUND
& FIRST FLOORS

THURSDAY, DECEMBER 6, 2018

10:00AM - 3:00PM
LIBRARY BUILDING GROUND
& FIRST FLOORS

AWARDS CEREMONY

BEGINS AT 12:30PM
LIBRARY BUILDING GROUND
AMPHITHEATER

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DECEMBER 6, 2018 · 12:55 PM
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Bonne August

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for Academic Affairs

Pamela Brown

Associate Provost

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Reneta Lansiquot

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Reginald Blake

Emerging Scholars

Reginald Blake

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Jean Hillstrom

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Prof. Ariane Masuda
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Study of High Fat Diet in Male Mice**

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Prof. Sanjoy Chakraborty
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Adewale Adegbemigun
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Carlos Aguayza
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Prof. Farrukh Zia

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Edsel Torres
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Prof. Pamela Brown

Housing Affordability

Wenderlin Gomez

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Abraham Gonzalez
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Prof. Nadia Kennedy

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Prof. Nadia Kennedy

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Kaiyrgul Sultanova
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Suleyman Turac
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Synthesis of the Tetracyclic Framework of the Oxygenated Angucyclines

Xiaolan Wu
Prof. Tony Nicolas

Advance Facade

Yuying Xian
Prof. Phillip Anzalone

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November 12, 2018

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NATIONAL SCIENCE FOUNDATION RESEARCH EXPERIENCES FOR UNDERGRADUATES IN SATELLITE AND GROUND-BASED REMOTE SENSING AT NOAA-CREST: EXPANDED OPPORTUNITIES

(NSF REU Grant # AGS-1560050)
Profs. Reginald Blake and Janet Liou-Mark, and Ms. Laura Yuen-Lau

Big Data & Data Visualization

Adrian Barros

Impact of Climate on Food Security in India

Thierno Barry

Spatio-temporal Variability in New York City's Soil Characteristics

Fatimata Dia

The Dionysus Project: Classifying and Monitoring Vineyards with Satellite Remote Sensing and Image Analysis

Nicole Flores

Downscaling Building Energy Demands to Single Building

Juan Garcia

Analysis of Urban Surface Temperature Using Satellite Remote Sensing and Ground-Based Applications

Justine Ginchereau

Investigation of Location Error in Satellite Precipitation Estimates Using a Radar-Gauge Product

Edgar Gomez

Floods, Risks and the Whole "Dam" Thing: Flood Estimation

Mohamed Layachi

Extreme Climatic Disasters and its Impacts on The World's Food Systems

Benjamin Pascal

The Dionysus Project: Classifying and Monitoring Vineyards with Satellite Remote Sensing and Image Analysis

Evelin Perez-Flores

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Akash Persaud

Impact of Climate on Food Security

Sharib A Rizvi

Investigation of Location Error in Satellite Precipitation Estimates Using a Radar-Gauge Product

Andre Rodriguez

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Shawn Telesford

Analysis of Surface Temperature Trends of World's Major Lakes and their Relationship With Landcover Changes

Cho May Than

Analysis of Urban Surface Temperature Using Satellite Remote Sensing and Ground-Based applications

Makini Valentine

Analysis of Snowmelt over Mountain Glaciers In High Mountain Asia Using Satellite Remote Sensing

Khaing Hsu Wai

NATIONAL SCIENCE FOUNDATION GP-EXTRA: EXPANDING AN INNOVATIVE PATHWAY TO REPLENISH THE GEOSCIENCE WORKFORCE WITH UNDERREPRESENTED MINORITY NON-GEOSCIENCE STEM MAJORS

Grant ICER 1801563

Profs. Reginald Blake, Janet Liou-Mark, Hamidreza Norouzi, Dereck Skeete, and Ms. Laura Yuen-Lau

PHYS 1002ID-D606: An Introduction to the Physics of Natural Disasters

Prof. Reginald Blake

Brakes on the Quakes

Jonathan Chea, Terence Cox, Lev Gurvits, Galib Rahman, Pedro Torres

Climactic Ending: Is it too Late?

Lawrence Michel, Jaime Mosquera, Patrice Prosper, Leonardo Ram, Abel Urgiles

Hurricanes and its Blustery Effects

Karran Hiralal, Xiao Lin, Monil Pandya, Carlos Villalva, Xiaocheny Wang

The Physics of Flooding

Ronaldo Carhuaricra, Jose Guerrero, Yun Jicing, Mingcheny Lin, Mohammad Raihan

Volcanic Behaviors: Chaos in the Caldera

Alfolabi Ibitoye, Timothy Medina, Jonathan Ornis, Peishan Tan

PHYS 1002ID-E400: An Introduction to the Physics of Natural Disasters

Prof. Reginald Blake

Eye of the Storm

Sean Denice, Zhiwei Lin, Andrew Singh, Cheng Wang,Mandel Yu

Nature's Pressure Cooker

Jean Beaubrun, Kreshnik Limoni, Hanss Neira, Wei Yan,Jeremy Zayas

The Catastrophe of Climate Change

Aby Benny, Dung Mai, Dieudonne Nduhira, Jimmol Singh

The Flooding

Diego Curatolo, Jannatul Mohima,
Sajib Salam, Sayad Shaon, Fanzhong Zeng

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Jelani Barro, Alexey Kononenko,
Jenny Mero, Janatan Randeen, Jian Yu

NATIONAL INSTITUTES OF HEALTH: BRIDGES TO THE BACCALAUREATE PROGRAM

Associate Provost Pamela Brown
Profs. Amanda Almond, Pa Her,
Jean Hillstrom, Janet Liou-Mark,
Diana Samaroo, Armando Solis, and
Ms. Cherishe Cumma

Comparative Analysis of Fecal Microbes in Turtles

Luci Devoy
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Barcoding and Sequencing of DNA Extracted From the Scales of Phataginus Tricuspis from Nigerian Locations

Samantha Lee
Prof. Olufemi Sodeinde

Barcoding and Sequencing of DNA Extracted From the Pyrgomorphid Grasshopper, Zonocerus Variegatus

Lisbeth Peralta
Prof. Olufemi Sodeinde

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Karina Castillo, Mariam Kamara,
Willnely Scroggins
Prof. Amanda Almond

Examining the Effects of Oxidative Stress on Tetrahymena Calpains

Diana Benitez, Kalei Graham Crowther,
Leah Pierre-Louis
Prof. Ralph Alcendor

SPECIAL PROJECTS

Geometry Expresses its Designs in Art and Architecture

Evelyn Richardson
Profs. Anne Leonhardt and Satyanand Singh

ABSTRACT:

We will explore geometric influences on the design, art and architecture in the development our world. We will show how the forces of geometry interweaves in art and architecture as it dictates the shape and beliefs that cement our civilization.

CMCE 2454: The Applied Hydraulics

Prof. Robin Sanchez

ABSTRACT:

CMCE 2454: The Applied Hydraulics course highlights the principles of water supply and sewerage collection and treatment, with an emphasis on NYC's water supply and wastewater treatment systems. For this class project, groups were asked to research and address the essential question: How can New York City's water infrastructure be improved?

Catch Me If You Can

Premnath Alfred, Baba Faal,
Dhaval Limbachiya, Frederick Ramos

FOG Clogs the Budget Sink

Jevgenijs Baltacs, Luis Galvez,
Miguel Monje, Asad Sajid

Stormwater on the Belt

Maria Becerra, Bogdan Gechka,
Haseeb Muzaffar, Youssef Salmaoui

Jamaica Bay

Antonio Corchado, Marie Germain,
Faiza Naz, Jonatan Sarmiento

The Delaware Aqueduct

Paul Dela Rosa, Nicodeme Joseph,
Veronica Ponce, Mersudin Velovic

Improving Roadway Drainage in NYC

Oluwatobi Akinlosotu, Florim Dzemaili,
Matthew Knutsen, Yasiri Quezada

Restoring the Gowanus Canal

Akinsanya DeFreitas, Franklin Guaman,
Angelo Piedra, Brenthal Thomas

Culinary/Pastry Future Innovators – Engaging Tomorrow's Leaders of the Hospitality Industry Through Development And Exhibition of Creative Works

Michelle Chen, Amber Furey-Lessen, Aquille Pierre, David Rivera, Charles Tripoli, Kristen Tsui

Culinary Pastry Innovators (CPI Fall 2018)

Prof. Robert Walljasper, CEC, CCE, CHE

Department of Hospitality Management

ABSTRACT:

The linking of theories, techniques and concepts taught within our education space to post graduate work and lives can be a challenge. Experiential and goal-oriented student learning can greatly boost connections between classroom knowledge, professional growth, and creativity. Mentoring with tiered levels can increase student engagement, improve creativity, and test critical thinking skills through culinary/pastry competition sanctioned by national professional organization (American Culinary Federation). Weekly communications and practices generate variety of assessment opportunities as progress is made towards the final exhibition of their creative works in public. The incorporation of mentor and peer feedback enables further enquiry by students and development of action plans for advancement. Industry experts and certified judges adjudicate these gastronomic creations and the pieces are displayed to peers. Active participation in professional culinary/pastry competition by students has the potential to increase their confidence, earn industry recognition, accolades, expand student's network, and enhance academic studies.

NOTES

NOTES

THE 29TH SEMI-ANNUAL HONORS AND EMERGING SCHOLARS POSTER PRESENTATION

To all the dedicated professors for mentoring students. A heartfelt thank you for making this event a successful one.

SPECIAL THANKS TO

Ms. Fabliha Afia
Mr. Abdou Bah
Dean Kevin Hom
Prof. Julia Jordan
Dr. Janet Liou-Mark
Dr. Hamidreza Norouzi
Dean David Smith
Mr. Lubosh Stepanek
Mr. David Turkiew
Dean Justin Vazquez-Poritz
Ms. Laura Yuen-Lau

A SPECIAL THANK YOU TO THE DEDICATED POSTER JUDGES

Lubie Alatriste
Ralph R. Alcendor
Monica Berger
Karen Bonsignore
Susan H. Davide
Ossama Elhadary
Urmi Ghosh-Dastidar
Katherine Ann Gregory
Nadia Kennedy
Jihun Kim
Paul C. King
Alberto Martinez
Michael McAuliffe
Jason A. Montgomery
Marissa J. Moran
Robert Ostrom
Peter Parides
Nandi Adeola Inglis Prince
Margaret Rafferty
Ashwin Satyanarayana
Jeremy Seto
Satyanand Singh
Zoya Vinokur
Robert Walljasper

A special recognition and appreciation to Ms. Julie Bradford for designing the program

NEW YORK CITY COLLEGE OF TECHNOLOGY