The

21st

Semi-Annual

Poster Presentation

HONORS &
EMERGING SCHOLARS
POSTER PRESENTATION

LEARNING COMMUNITIES
THEME-BASED PROJECTS
POSTER PRESENTATION

Wednesday, December 3, 2014
11:00AM - 4:00PM
Atrium Ground & First Floors

Thursday, December 4, 2014
10:00AM - 3:00PM
Atrium Amphitheater
Awards Ceremony at 12:30PM

Contents

Awards Ceremony

December 4, 2014
Atrium Amphitheater
12:30 PM

Greetings

Russell K. Hotzler
President

Bonne August
Provost and Vice President for Academic Affairs

Pamela Brown
Associate Provost

Honors Scholars Recognition

Janet Liou-Mark
Director of the Honors Scholars Program

Laura Yuen-Lau
Coordinator of the Honors Scholars Program

Research and Emerging Scholars Recognition

Justin Vazquez-Poritz
Director of Undergraduate Research

Learning Communities Recognition

Estela Rojas
Director of Learning Communities

Best Poster Awards

Reneta D. Lansiquot
Assistant Director of the Honors Scholars Program

National Society for Collegiate Scholars Induction Ceremony
October 23, 2014

Honors Courses

CHEM 1210: General Chemistry II Campus Honors

Prof. Diana Samaroo

Supported by CUNY Compact Funds

The Analysis of Dissolved Oxygen In Order to Conclude the Sustainability of Life in the East River

Arwa Ahmed, Kevin A. Castillo, Maria Fuzailov, Michael Lumentut and Hanan Tariq

Abstract: On two separate occasions, water samples from New York's East River were collected. This was done to understand the concept of dissolved oxygen (DO) and its correlation to aquatic life; and how temperature influences the amount of DO in water. It was found that the average dissolved oxygen level from the first water sample collection at 17 degrees Celsius was 7 ppm, corresponding to 73% saturation. The average of dissolved oxygen level from the second water sample collection at 14 degrees Celsius was 10 ppm, corresponding to 97% saturation. For aquatic life to be sustained the dissolved oxygen level should be 5 to 6 ppm; anything lower can will be detrimental to the aquatic life. Based on these results, it can be concluded that the East River has enough oxygen level to sustain aquatic life. In addition to that, it can be concluded that as the temperature increases, the oxygen level decreases.

How Does Temperature Affect the Conductivity of Brooklyn's East River Water?

Victor O. Adedara, Curtis Appiah and Edrouine Gabriel

Abstract: Water samples were collected from New York's East River on two separate occasions over a three week span. This was done to measure and compare the differences in conductivity over time. The river samples were compared to both Prospect Park Lake water and distilled water, as a control sample. The conductivity of East River water ranged from 35 to 40 millisiemens, while distilled water was found to be 0 millisiemens and Prospect Park Lake was found to be 0.087 to 0.114 millisiemens. Based on the data collected, the conductivity of the East River was found to be higher compared to the other sources of water.

A Comparative Study of pH, Nitrates, Nitrites and Iron Levels of East River and Distilled Water

Cuong Bach, Tiffini R. Miller, Jesam E. Usani and Zhao Hui Wang

Abstract: Water samples were collected from Brooklyn's East River at the same location three weeks apart. These samples were tested to measure the pH, levels of Nitrates, Nitrites and Iron and compared to distilled water as controls. The pH was found to be 8 for the first collection and rose to 9 for the second. The standard pH of water is neutral and the distilled water reflected that with a pH of 7. The Nitrate level was found to decrease from the first sample (6 ppm) to the second collection (5 ppm). The Nitrite level was found to decrease from the first sample (0.4 ppm) to the second collection (0.2 ppm). Distilled water was found not to contain Nitrates or Nitrites. None of the samples tested were found to contain Iron.

Brooklyn Botanic Garden
September 23, 2014

The Black Male Initiative – Peer-Led Team Learning Workshop
October 16, 2014

Honors In A Regular Course

Problem Solving Using Mesh Analysis in Circuits
Abrar Abdurrob
Prof. Ohbong Kwon
EMT 1150: Electrical Circuits

Implementing Software as a Service (SaaS) Solution Using MS Azure
Shamsan Ahmed
Prof. Badreddine Oudjehane
CST 4707: The LAN-Internet Connection

Integral Mauy Thai Roundhouse Kick
Ismail Akram
Prof. Kate Poirier
MAT 1575: Calculus II

Structural Analysis of Heavy Timber Frame Buildings
Mohsin Alam
Prof. Barbara Mishara
ARCH 2480: Principles of Stability in Structures

Is the Prognosis Good for Adults Who Have Surgical Repair of the Atrial Septal Defect?
Patricia Branch
Prof. Olufemi Sodeinde
BIO 2312: Human Anatomy and Physiology II

Bioinformatics as a Tool in the Analysis of Cytokines Expressed in a Maternal Immune Activation Model of Schizophrenia
James-David Brown
Prof. Armando Solis
BIO 3350: Bioinformatics

Wrestling with English: Dominican Experiences in New York City
Noel Melendez
Prof. Laura Hapke
ENG 1121: English Composition II

A Multi Sensor Device for Mobile Urban Sensing
German Calle
Prof. Benito Mendoza
CET 4711: Computer Controlled System Design I

Bose-Einstein Condensation and Superfluidity in Nanoscale Systems and Carbon Nanostructures
Md Adnanul Chowdhury
Profs. Oleg Berman and Ilya Grigorenko
PHYS 1442: General Physics II: Calculus Based

Gutenberg Impacts Education
Ivan Cortes
Prof. Maureen Neuringer
ARTH 3311: The History of Graphic Design

Diabetes Management: Utilization of Social Learning Theory
Marc Devereaux
Prof. Kevin McGirr
NUR 4110: Client Care: Urban Issues

Applications to Markov Chains
Shannon Evans
Prof. Samar Elhitti
MAT 2580: Introduction to Linear Algebra

Finding Minimum Distances Using Mathematical Modeling
Lisa Ferreira
Prof. Johann Thiel
MAT 1475: Calculus I

National Science Foundation
Research Experiences for Undergraduates 2014

Catalogue
Louisa Garcia
Prof. Douglas Davis
ADV 4801: Portfolio

Biodiversity in Prospect Park
Natassa Gavalas
Prof. Liana Tsenova
BIO 3302L: Microbiology Lab

SQL Injection – An Analysis on Database Design and Security Elements
Annique Henriques
Prof. Elizabeth Milonas
CST 3604: Design of Distributed Databases

SQL Injection
Nolan Hu
Prof. Fangyang Shen
CST 2405: System Administration (Windows)

Concrete Workability
Ebou Joof
Prof. Hamidreza Norouzi
CMCE 2306: Materials Testing Laboratory

Healthy Dining Options for the Average College Student: Why it is important?
Kelly Laurent
Prof. Susan Lifrieri-Lowry
HMGT 2304: Baking and Pastry Arts II

Contribution of mDia1 and mDiaRAGE Interactions to Axonal Transport Impairment and Neuronal Dysfunction in the Pathogenesis of Diabetic Neuropathy
Alejandra Lezama
Prof. Judyta Juranek
BIO 2312: Human Anatomy and Physiology II

Machine Form Future's Building Designs
Abdelsalam Mali
Prof. Loukia Tsa Foulia
ARCH 1230: Building Technology II

How to Cut a Ham Sandwich
Andrew Maloney
Prof. Kate Poirier
MAT 1575: Calculus II

Aging and the Venous System or Wise Old Veins
Andrew Maloney
Prof. Niloufar Haque
BIO 2312: Human Anatomy and Physiology II

Difference in Resistance from Temperature Coefficient
Eric Moran
Prof. Larry Flicker
EMT 1150: Electrical Circuit

Biodiversity in Prospect Park
Natalie Nelson
Prof. Liana Tsenova
BIO 3302: Microbiology

Bose-Einstein Condensation and Superfluidity in Nanoscale Systems
Kevin Ng
Profs. Oleg Berman and Ilya Grigorenko
PHYS 1442: General Physics II: Calculus Based

Ecot Cleaning Services Website
Alexander Onate
Prof. Xiaoquan Charles Li
CST 2309: Web Programming I

New York Aquarium
October 17, 2014

Molecular Characterization of Diadumene Lineata (Cnidaria: Anthozoa: Hexacorallia: Actiniaria) from the East River in New York City

Lysna Paul
Prof. Mercer Brugler
BIO 1201: Biology II

A Multi Sensor Device for Mobile Urban Sensing

Gin Pena
Prof. Benito Mendoza
CET 4711: Computer Controlled Systems Design I

A First Look at Quantum Mechanics

Sam Qabbani
Prof. Ari Maller
PHYS 1441: General Physics I: Calculus Based

Crime Victims and Socio-Emotional Problems

Daniel Saint-Hilaire
Prof. Suman Ganguli
MAT 1372: Probability and Statistics

Has Society Values Depreciated?

Khiran Samsundar
Prof. Charles Halpern
MKT 1100: Essentials of Marketing

Finding Minimum Distances Using Mathematical Modeling

Lissette Santana
Prof. Johann Thiel
MAT 1475: Calculus I

Lindenmayer System Based Scaffold Design

Alex Sette
Prof. Ozlem Yasar
MECH 2322: Materials Science

The Financial Measurement of a Growing Business

Katrina Sherald
Prof. Carol Brathwaite
MKT 1255: Merchandise Planning and Control

Application of the Fourier Transform for Spectral Analysis in Telecommunications Engineering Technology

Ina Tsikhanava
Prof. Asm Delowar Hossain
TCET 3102: Analog and Digital Communications I

Consumer Behavior in the Australia's Market

Hsiao Zhao
Prof. John Dixon
MKT 1212: Consumer Behavior

Bose-Einstein Condensation and Superfluidity in Nanoscale Systems in the Presence of External Fields

Mohammad Zilon
Profs. Oleg Berman and Ilya Grigorenko
PHYS 1442: General Physics II: Calculus Based

The Mathematical Association of America: NJ and NY Joint Meeting
Saint Peter's University
November 1, 2014

The Mathematical Association of America NREUP 2014
J. Ramirez, J. Langman, Thierno Adouma Diallo (City Tech)
A. Arrendondo (Rutgers University)
Directors: Drs. Eugene Fiorini and Urmi Ghosh-Dastidar

Research Scholars

Design Analysis of Solid Waste Mixing in a Combustion Chamber
Christopher Amoroso
Prof. Masato R. Nakamura

Energy Use vs. Indoor Air Quality in High-Performance and Sustainable Buildings
Joseph Cotter
Prof. Lukasz Sztaberek

Mobile Diagnostic Expert System
Mamun Hasan
Prof. Marcos S. Pinto

Computational Design of Nano Devices for Optical and Quantum Computing
Andy J. He
Prof. German Kolmakov

Advancing Library Research Techniques
Prof. Anne Leonard
October 16, 2014

Developing and Delivering Effective Research Poster Presentations
Prof. Jody Rosen
October 30, 2014

Positive Reframing and Vagal Tone: A Variation on the Expressive Writing Paradigm
Keishawna Jones
Prof. Jean Kubeck Hillstrom

Development of a Portable Low Cost Chemical/Dust Detection Unit
Sharon Jones
Profs. Angran Xiao and Andy S. Zhang

Stochastic Simulation of a Combustion Chamber in a Waste-to-Energy (WTE) Power Plant
Ye Htet Lynn
Prof. Masato R. Nakamura

Using Infograms for Online Educational Videos
Andrew Maloney
Prof. Vasily Kolchenko

Perfecting High/Low Redshift Galaxy Separation Using Machine Learning
Mario R. Martin
Prof. Viviana Acquaviva

Stress Analysis for Stability of Structures Subjected to Human Loading
Rachid Moumni
Prof. Gaffar Gailani

The Role of Metal Ions in Aβ1-40 Aggregation and Reactive Oxygen Species Formation in the Course of Alzheimer's Disease
Magdalena Podgorny
Prof. Alberto Martinez

Honors Scholars Program Orientation
September 11, 2014

Center for Secure and Resilient Maritime Commerce
Summer Research Institute at Stevens Institute of Technology
Joe Nathan Abellard (City Tech)

Crash-Free Spherical Aerial Vehicle
Tenzing Rabgyal
Prof. Xiaohai Li

Development of an Interactive Candy Crane Toy
Deborah Sitton
Profs. Angran Xiao and Andy S. Zhang

Development of a Portable Low Cost Chemical/Dust Detection Unit
Semone Thomas
Profs. Angran Xiao and Andy S. Zhang

Heliospheric Neutral Current Sheet Sector Structure Border Crossing by the Earth and the Seismicity of the Earth
George Vanishvili
Prof. Masato R. Nakamura

Emerging Scholars

Responsive Web Design and its Applications
Hibba Abbas
Prof. Marcos Pinto

Scaffold Design and Fabrication for Tissue Engineering
Shalman Ahmed
Prof. Ozlem Yasar

Implementing Software as a Service (SaaS) Solution Using MS Azure
Shamsan Ahmed
Prof. Badreddine Oudjehane

Mosquitos & Materials: Building Construction in Developing Regions
Tasnuva Ahmed
Prof. Sanjive Vaidya

Waste-to-Energy Technology
Curtis Appiah
Prof. Masato R. Nakamura

Turbulence and Energy Transport in Quantum Fluids
Md Arefin
Prof. German Kolmakov

Using Cyper PLTL Workshops in Dental Hygiene
Artemis Artoun
Prof. Maria-Elena Bilello

XML and JSON Data Transfer in Android Application
Khachatur Arutyunyan
Prof. Marcos Pinto

Graph Theory and Brain Connectivity
Alexander Berger
Prof. Urmi Ghosh-Dastidar

Video Surveillance Hospitality Industry
Jovany Bravo
Prof. Patrick O'Halloran

Roebling and the D & H Canal
Catherine Brito
Prof. Paul King

Molecular Characterization of Diadumene Lineata (Cnidaria: Anthozoa: Hexacorallia: Actiniaria) from the East River in New York City
Freddy Castro
Prof. Mercer R. Brugler

Team and Community Outreach [DURA Solar Decathlon 2015]
MuJun Chen
Prof. Alexander Aptekar

Bose-Einstein Condensation and Superfluidity in Nanoscale Systems
MD Adnanul Chowdhury
Profs. Oleg Berman and Ilya Grigorenko

CAD/CAM Integration in the Design of Injection Mold
Ricardo Clarke
Prof. Angran Xiao

Prospect Park Biodiversity Project
Andrew Cook
Prof. Liana Tsenova

Cyber Security
Blanca Cortes
Prof. Patrick O'Halloran

Roebling and the D & H Canal
Zahava Cortez
Profs. Douglas Davis and Paul King

Chronicling the Achievements and Activities of Honors Scholars at City Tech
Zianne Cuff
Prof. Reneta D. Lansiquot

Positive Reframing and Vagal Tone: A Variation on the Expressive Writing
Cherishe Cumma
Profs. Pa Her and Jean Kubeck Hillstrom

Struggle and Security in Early American Literature
Sorzahno De Souza
Prof. Caroline Hellman

Graph Theory and Brain Connectivity
Thierno Diallo
Prof. Urmi Ghosh-Dastidar

Team and Community Outreach [DURA Solar Decathlon 2015]
Hadiza Djibring
Prof. Alexander Aptekar

Site Analysis
Gareth Enahoro
Profs. Jill Bouratoglou and Lia Dikigoropoulou

Roebling and the D & H Canal
David Encarnacion
Profs. Douglas Davis and Paul King

Prospect Park Biodiversity Project
Farjana Ferdousy
Profs. Urmi Ghosh-Dastidar, Sandie Han, Diana Samaroo and Liana Tsenova

Consequences of High Fat Diet in Male Mice
Nahum Figueroa
Prof. Sanjoy Chakraborty

Microbiology of the Built Environment
Fabiola Fontaine
Prof. Davida Smyth

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Florencia Garcia
Prof. Reneta D. Lansiquot

Prospect Park Biodiversity Project
Natassa Gavalas
Prof. Liana Tsenova

Tin Man
Steve Gazca
Prof. Zoya Vinokur

Mentoring Among Registered Nurses: A Literature Review
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Dominique Graci
Prof. Alexander Aptekar

Tin Man
Maria Athina Guido
Prof. Zoya Vinokur

Establishing a Computer Network Laboratory
Dhiraj Gupta
Prof. Benito Mendoza

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Devya Gurung
Prof. Sanjoy Chakraborty

Implementation of Web Hosting on Virtual Machine and Introduction to Tomcat and Glassfish Application Server and their Comparison
Preeti Gurung
Prof. Chein Chang (Peter) Li

Analyzing the Presence of Cardiovascular Disparities Among African Americans and Potential Nursing Implications
Abdul Haq
Prof. Aida Egues

Using Cyper PLTL Workshops in Dental Hygiene
Liliya Harelik
Prof. Maria-Elena Bilello

House Controls Augmented Reality [DURA Solar Decathlon 2015]
Kemoy Henry
Prof. Alexander Aptekar

Writing Case Studies for Problem Solving with Computer Programming
Solanlly F. Hernandez
Profs. Candido Cabo and Reneta D. Lansiquot

The Publishing and Commercial History of Peck Slip
Aaron Hollander
Prof. Mark Noonan

Closed Linear Economies
MD Afzal Hossain
Prof. Satyanand Singh

Establishing a Computer Network Laboratory
Anzamul Hyder
Prof. Benito Mendoza

What Misconceptions Do Students Have in Solving Problems in Fundamentals of Mathematics (MAT1175)?
Rezwon Islam
Prof. A.E. Dreyfuss

Quantitative PCR Analysis of Expression Changes in Differentiating PC12 Cells
Daenna Joseph
Prof. Jeremy Seto

Compiling a Spectral Library of Fluids towards the Identification of Additives and Forgeries
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Alisa Kalegina
Prof. Alexander Aptekar

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Farhin Kapadia
Prof. Farrukh Zia

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Profs. Aida Egues and Elaine Leinung

Gene Expression Networks in Schizophrenia
Elizabeth Kolmus
Prof. Jeremy Seto

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Manhin Lam
Prof. Davida Smyth

Emerging Scholars Program
Winnie Leefung
Prof. Reneta D. Lansiquot

Open Source Cyber Physical Systems
Ashley Lino-Frazier
Prof. Farrukh Zia

Consequences of High Fat Diet in Male Mice
Nicole Leigh Madrazo
Prof. Sanjoy Chakraborty

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Faizan Malik
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Molecular Characterization of Diadumene Lineata (Cnidaria: Anthozoa: Hexacorallia: Actiniaria) from the East River in New York City
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Prof. Mercer R. Brugler

Structural Modules Transport and Connections [DURA Solar Decathlon 2015]
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Prof. Alexander Aptekar

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Ana Matthews
Prof. Ting Chin

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Profs. Candido Cabo and Reneta D. Lansiquot

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Prof. Reneta D. Lansiquot

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Noel Melendez
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Prof. Maria-Elena Bilello

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Prof. Reneta D. Lansiquot

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Prof. Sanjoy Chakraborty

Exterior Development [DURA Solar Decathlon 2015]
Farhana Rahman
Prof. Alexander Aptekar

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Hasanuzzaman Rahman
Prof. German Kolmakov

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Shalamar Raimie
Profs. Pa Her and Jean Kubeck Hillstrom

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Alondra Ramos
Prof. Alexander Aptekar

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Ayesha Rasool
Prof. Davida Smyth

Design Development and Materials [DURA Solar Decathlon 2015]
Redon Rexha
Prof. Alexander Aptekar

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Mirza Rezwan
Prof. Zoya Vinokur

Tin Man
Aele Rodriguez
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Brian Rogers
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Structural Modules Transport and Connections [DURA Solar Decathlon 2015]
Margarita Salas
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Building Web Applications using AJAX
Elvis Sanchez
Prof. Marcos Pinto

New Web Design Techniques: Offline Caching, CSS3 Media Queries
Juan Santana
Prof. Marcos Pinto

Transition to College: Why do Incoming Freshmen not Attend a Free Summer Bridge Program?
Ricky Santana
Prof. A.E. Dreyfuss

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Alex Sette
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Faraz Siddiqui
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Dhavin Singh
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Jodieann Stephenson
Prof. Reneta D. Lansiquot

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Alicia Symister
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Aura Tejada
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Steven Tipton
Prof. Boyan Kostadinov

The Nature of Internships in the Hospitality, Travel, and Tourism Industries
Suzanne Tran
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Application of Place-Based Research in the Solar Decathlon Project
Dennis Trotter
Prof. Sean MacDonald

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Wing Pan Kenny Tsang
Prof. Davida Smyth

Application of the Fourier Transform for Spectral Analysis in Telecommunications Engineering Technology
Ina Tsikhanava
Prof. Djafar K. Mynbaev

Exterior Development [DURA Solar Decathlon 2015]
Nwaram-Billi H. Ugbode
Prof. Alexander Aptekar

Prospect Park Biodiversity Project
Erica Yeboah
Profs. Urmi Ghosh-Dastidar, Sandie Han, Diana Samaroo and Liana Tsenova

Prospect Park Biodiversity Project
Mallessa Yeboah
Profs. Urmi Ghosh-Dastidar, Sandie Han, Diana Samaroo and Liana Tsenova

2 Bridges Review Internship
Michael A. Youmans
Prof. George Guida

Economical and Environmental Benefits of Recycling
Sidra Zafar
Prof. Sean MacDonald

Mathematical Approaches to Understanding Parametrics in Architecture
Yuliya Zavolunova
Prof. Anne Leonhardt

Mobile Dictionary
William Zhong
Prof. Marcos Pinto

Global Climate Change in Developing Cities: Adaptations of the Built Environment
Elli Zigenis
Prof. Ting Chin

Bose-Einstein Condensation and Superfluidity in Nanoscale Systems
Mohammad Zilon
Profs. Oleg Berman and Ilya Grigorenko

Using Infograms for Online Educational Videos
Meredith Zwicke
Prof. Vasily Kolchenko

Emerging Scholars

Supported by the Black Male Initiative Program

The Linear Algebra Behind Google
Joe Nathan Abellard
Prof. Samar ElHitti

SENCER The Prospect Park Biodiversity Project: A Chemistry Perspective
Victor Aderara
Prof. Diana Samaroo

Network Analysis of Gene Expression Changes in Maternal Immune Activation Models of Schizophrenia
James-David Brown
Prof. Jeremy Seto

Potential of Using Microwave Emission in Global Analysis of Land Cover and Drought State
Yanna Chen
Prof. Hamidreza Norouzi

Designing a Research Poster Presentation
Mr. Marvin Bennett
November 13, 2014

Identification of Alternative Transcriptional Start Sites in Maternal Immune Activation
Brittiny Dhital
Prof. Jeremy Seto

Logarithms, Polylogarithms and Multiple Polylogarithms
Shannon Evans
Profs. Andrea Ferroglia and Giovanni Ossola

Synthesis of a Fully Oxygenated Model of the ABC Ring of the Angucycline Antibiotics
Matthew Henning
Prof. Tony E. Nicolas

Take a Sip: Anti-Alzheimer's Properties and Other Health Benefits of Coffee and Caffeine
Rebecca McCurdy
Prof. Alberto Martinez

Comparison of Ground-based Soil Moisture Measurements with Satellite-Bases Product
Nyan Lynn Oo
Prof. Hamidreza Norouzi

Simulation of Fluid Flow in Injection Molding Process
David Owoeye
Prof. Angran Xiao

Writing Case Studies for Problem Solving with Computer Programming
Walter Rada
Profs. Candido Cabo and Reneta D. Lansiquot

Learning Communities Theme Based Projects

Story-Telling in Action-Adventure and Role-Playing Games

Bloodlust
Kevin Guan, Tristen Drouillard, Hakeem Huggins, Chevon Kelly, and Marvin Laboriel
Magia
Liliana Di Giuseppe (Lily), Qian Yun Chen (Vicky), Justin Choi, Gabriel Taveras, and Kimberly Truong
Ominous
Paul Holder, Samuel Holder, Mingcheng Lin (Johnshon), Matt Sandoval, and Louis Tejada
Rebirth
Stevens Joseph, Jesse Angel, Randy Apanah, Kuljit Singh, and Randy Ramsaywack
Third Eye
Seline Perez, Shahareen Khanom, Ahamed Rizvi, and Ricky Martinez

Profs. Candido Cabo, Reneta D. Lansiquot and Ashwin Satyanarayana

ENG1101: English Composition I
CST1100: Introduction to Computer Systems
CST1101: Problem-Solving with Computer Programming

Off the Page: Discovering Math in Everyday Life

Alexander Alday, Crystal Binda, Larissa Deguerre, Dimitri Duverger, Michael Edwards, Adaoma Ejimbe, Frank Frias, Olivia Gutierrez, Matthew Hirsch, Rashad Isaacs, Breon Levons, Vincent Meli, Justin Neuman, Ivan Parraga, Eric Paucar, Deuris Pena, Purnadat Ramkhelawan
Ravi Rampatsingh, Reginald Rosario, and Jarvis Simms

Profs. Suzanne Miller and Lin Zhou

ENG 1101: English Composition I
MAT 1175: Fundamentals of Mathematics

Eat Your Words!
Just Eat It: City Tech's Healthy Student Initiative

Jimmy Aguaiza, Winson Chan, Jovannie A Charles, Randy Checo, Saleste N. Figueroa, Jeffrey Franco, Jermel H. Ince, Alexander Johnson, Nathan Julian, Hallie Lederer, Hector Ledesma, Hoi Ching Tiffany Lo, Careem A. Mcleod, Tiana M. Mcrae, Roberto B. Perez, Paul Richards, Gabriel R. Solano, and Octavius D. Tanner

Profs. Rebecca Devers and M. Genevieve Hitchings

ENG 1101: English Composition I
ADV 1162: Raster and Vector

The Composition of Happiness & Well-Being

Arlene Adams, Katiria Altruz, Tanaye Amis, Natasha Armas, Mirna Ayala, Dominique Brunson, Lilisbeth Castillo, Anna Coulibaly, Damon Drumgold, Carina Flores, Ivyz Fuentes, Jacob Garcia, Luz Garcia, Meena Goberdhan. Jack Hon, Greys Martinez, Kelsey Melendez, Indira Raimundi, Jocelyn Romero, Dulce Tepi, Gabriela Velasquez, Tinika Welsh

Profs. Jill Belli and Justine Pawlukewicz

HUS 1101: Introduction to Human Services
ENG 1101: English Composition I

"An Exploration of Effective Mathematics Pedagogy"

Sanaya Brown, Sing Fong Chiu, Saloua Daouki, Allestair Elliston, Victor Lee, Fathima Mohamed Rafeek, Leonardo Perez, Rafael Regalado, Julia Rivera, Joseph Ruiz, Sonya Sultana, Irania Vazquez, and Benjamin Zeng

Profs. Andrew Douglas and Estela Rojas

MEDU 2010: Technology in Mathematics Education
MEDU 3011: Methods of Teaching Middle School Mathematics

Ways of Seeing: Adventures with Image and Text

Natali Agudelo, Nizar Alvarez, Kevin Ayala, Garfield Crumbie, Tevin Dacosta, Hailin Du, Michael Feliciano, Kevin Gonzalez, Lorena Gonzalez, Alexander Guerrero, Zenoa Hinds-Lewis, Xiaocen Jiao, Cheng Long Lin, Dongmin Lin, Roberto Lopez, Priya Maharban, Mickala Mcfarlane, Jessica Pareja, Moeen Razak, Richard Rice, Sheryl Varricchio, and Janet Whitten

Profs. Jody R. Rosen and Jenna Spevack

ENG 1101: English Composition I
ADV 1100: Principles of Graphic Design

Out of Many, One: Exploring Cultural Connections through Folklore

Homaira Abeda, Fayad Abrahim, Tiffany Badillo, Wynter Battle, Dereck Bhoag, Jasmaine Clark, Christian Desinor, Anthony Dyce, Fance Harrell, Ksama Gumbs, Natassia Harte, Jordan Holnes, Lelanda Jones, Anjorn Lavia, Amanda Martinez, Daniella Martinez, Adrian Montalvan, Jasmine Morales, Robinson Perez, Bijan Reid, Pemba Sherpa, Ishmael Veira, and Joshua Vera

Profs. Annie Ngana-Mundeke and Chandra Young

ENG O92R: Developmental Reading Level II
AFR 1130: Africana Folklore

Biology-Math

Sekhri Ahmed, Natasha Aimas, King Alcock, Arlyn Aquino, Jean Carlo, Chee Fong Chai, Xu Hui Chen, Luis G. Giraldez, Abujafar Kazi, Shinan Lui, and Gerlyn Pichardo

Profs: Holly Carley and Shahnewaz Rahim

BIO 1100: Human Biology
MAT 1190: Quantitative Reasoning

Special Projects

Authentic Research Experiences in Microbiology: How Studying the Urban Environment and Posing Thoughtful Questions can Lead to a Real Impact on Student Learning

Prof. Davida Smyth
BIO 3302: Microbiology

Funded by National Science Foundation TUES Grant (Theodore Muth, PI, Brooklyn College)

Climate Change Impacts on Water Resources

Gregory DeVico, Shaun Hoffman, Courtney Scipio, Hiu Lee Tsui, Lucia Vlad-Berindan, and Jacky Xu

Climate Change Impacts on Health

Khayri Alphonse, Dannifer Cueto, Mairovi Garcia, Navindra Haripersaud, Jonathan Martinez, Elina Savina, Sonia Tovar, and Shantal Valdez

Climate Change Impacts on Energy

Ibrahima Barry, Carla Cruz, Ehis Igbinosa, Jaime Martinez, and Kim Moore

Prof. Reginald Blake
PHYS 1112: Principles of Science II

CUNY Service Corps: Increasing STEM Awareness at Daniel Hale Elementary School

Abigal Doris *(Lehman College)*
Areeba Iqbal *(New York City College of Technology)*
Dante Francis *(New York City College of Technology)*

Profs. Diana Samaroo and Melanie Villatoro

Designing Effective Student Advisement Tools: Department of English as a Case Study

Mandy Mei

Prof. Julian Williams

Abstract: Every student attending New York City College of Technology must take at least one English course to complete their degree. How can faculty provide information to students about course offerings? Dr. Julian Williams and Mandy Mei created a marketing campaign as a solution.

Enhancing Student Outcomes by Integrating Inquiry Based, Student Driven Exercises into the Undergraduate Biology Laboratory Classroom

Profs. Jeremy Seto, Davida Smyth, and Andleeb Zameer
BIO 1101: Biology I

Resources for Evidence-based Laboratory Experiences
Funded by Perkins VTEA Major Effort

Molecular Genetics and the Influence on Taste: Bringing Biology to a Beverage Management Class

Profs. Karen Goodlad, Jeremy Seto, and Ghassan Yehia
BIO 3620: Molecular and Cell Biology
HMGT 2402: Wines and Beverage Management

The Improvement of Faculty Commons Website: How will it Impact User Experience?

Maen Caka and Kevin Rajaram

Prof. Julia Jordan

Abstract: The changes to the website are made to enhance user experience. They include accessibility, ease of use, and a wide array of new features. The site is now easier to read and navigate through pages with the ability to search and find information. Its engine has been updated, making it a fully functioning web application. Calendar events can be searched and users now have the ability to add them to their personal eCalendars. The Faculty Commons website is now mobile optimized to allow a better experience on desktops, laptops, and handheld devices.

We're Growing Brains at City Tech! Transforming RNA-Seq Analysis to Align a Curriculum and Bring Internship Opportunities through Authentic Research in the Classroom

Profs. Jeremy Seto, Davida Smyth, and Ghassan Yehia
BIO 3620: Molecular and Cell Biology
MED 3910: Internship/Research in Biomedical Informatics

Funded by National Science Foundation DUE Grant # 1323522

National Science Foundation REU Program
Howard University Beltsville Laboratory
Francois Mertil and Md Arefin

Number Theoretic Explorations

Christina Assante, Saloua Daouki , Loudia Desir, Joshua Haber, Owen Hewitt, Alan Jara, Joseph Mongo, Leonardo Perez, Jean Poyo, Rafael Regalado, Julia Rivera, Renautha Rose, Joseph Ruiz, Ricky Santana, Denice Santos and Jian Sun

Abstract: We investigate the infinitude of the primes for arithmetic progressions and other interesting problems in number theory by focusing on specific questions. In this journey of discovery we see the magnificence of numbers and touch upon some of their properties that safeguard our data.

Prof. Satyanand Singh
MAT 3021: Number Theory

Josephus Permutation

Hamzah Alhamayel, Eric Aung, Atif Baig, Phillip Bharath, Brian Bones, Ingrid Espinoza, Marco Estrada, Anton Fedorov, Jibriel Hasan, Nicholas Lefkarites, Leonel Lopez, Luka Machavariani, Gary Mei, Wilgene Mejias, Daniel Otero, Christian Ovalles, Christopher Pan, Sunil Patel, Sadaf Ramzan, Imani Rush, Swastika Shrestha, Angela Tang, Somrow Zainul, and Yaoxin Zheng

Abstract: We illustrate a classic problem, touch on recursive relations and program in Java, Python and C ++. We will describe this permutation and trace it roots whilst we illustrate the versatility from various programming perspectives.

Prof. Satyanand Singh
MAT 2440: Discrete Structures and Algorithms I

Chemical Markers of Water Quality: A CHEM 1210 Investigation of the East River

Hamzah Alhamayel, Helena Asamoah, Najma Bibi, Stephanie Bisram, Lily Chan, Alexander Chaparro, Tristan Charran, Brian Gomes, Fatema Jannat, Christina Lafontant, Shannon J. Lewis, Keefe Lim, Tiara Mitchell, Linalee Moreira, Anthony Paulino, Marina Portnaya, Somat Thakali, George Varghese, and Shaniqua A. Walker

Prof. L. Jay Deiner
CHEM 1210: General Chemistry II

Museum of Chinese in America
November 6, 2014

National Society for Collegiate Scholars
Leadership Team

NSF Louis Stokes Alliance for Minority Participation (LSAMP) Program

Program Coordinator: Mr. Marvin Bennett

Detection of Terahertz Signals Using Fiber Based Multiple Sagnac Interferometers Coupled with a Variable Stress Dependent Polarizing Material
Muhammed Abubakar
Prof. Xin-Zhou Wei

New Design of Combustion Chamber in a Water-to-Energy Plan
Eric Bravo
Prof. Masato Nakamura

Cloning MGLUR2 and 5HT2a Receptors to Understand the Effects of Expression Abnormalities on Neurodevelopment and Behavior
James-David Brown
Prof. Jeremy Seto

Computational Design of Polariton Nanodevices for Information Transfer and Quantum Computing
Ricardo Ferro
Prof. German Kolmakov

Using Next Generation Sequencing Technology to Elucidate the Microorganism Diversity in Water Sites in Brooklyn
Fabiola Fontaine
Prof. Davida Smyth

Using CAD in Custom Design Medical Devices
Rachid Moumni
Prof. Gaffar Gailani

Open Linked Data: Queries and Visualization
Adedamola Shomoye
Prof. Benito Mendoza

Spectral Analysis of Water Soluble Tetra-Methylpyridinium Porphyrin [TMPyP] and Copper (II) Phthalocyanine-tetrasulfonic Acid [CuPc-(SO4)4] with Albumin
Andrew Wills
Prof. Diana Samaroo

Research Experiences for Undergraduates in Satellite and Ground-based Remote Sensing at NOAA-CREST 2

Funded by NSF REU Grant # AGS-1062934
Prof. Reginald Blake, Prof. Janet Liou-Mark, and Ms. Laura Yuen-Lau

Holistic Investigation of Water Pollution in the Harlem River
Augustine Amissah

Seasonal impact on Boundary Layer Heights in a Heterogeneous Landscape
Md Arefin

Identification of Phreatophytic Ecosystems Depending on Groundwater in Texas Based on NVDI Data
Keisha Baxter

Multi instrument Classification of Atmospheric Boundary Layer Stability
Raymond Bishir

Detection of Land Cover Change and Drought Trend Using Brightness Temperature and Microwave Emission
Yanna Chen
JFEW Scholars Program

Spatial Variability of Ambient Ozone Concentrations during Three Heat Waves in the Northeast Megaregion of the United States
Brittiny Dhital
JFEW Scholars Program

Flood Prediction Based on Multidimensional Analysis of Precipitation and Inundation in the Mekong River Delta
Andrew Fitzgerald

Comparison of NOAA-CREST Soil Moisture Measurements with AMSR-2
Akiema Forbes

Evaluate the Performance of Different Water Classification Algorithms to Determine Clear Sky Water Pixels in VIIRS Satellite Images
Indrajit Gurung

Comparison of Two Different Type of Ceilometers
Francois Mertil

Characterizing Arctic Land Surfaces Using a Forward Looking Infrared (FLIR) Camera
Berenice Oseguera

Creating Water Body Maps for the Pacaya Samiria, the Everglades, and the US Gulf Coast Using NASA UAVSAR Imaging Radar Data
Stivaly Paulino

Summertime Wind Speed Trends in Southern California
Esha Rahman

Geospatial Modelling of the Harlem River Pollution
Modou Sene

A Seasonal Investigation of Heat Fluxes in the New York City Region
Selma Skoko

Landsat Retrieved Surface Properties Effects on the Day Time Temperature Pattern in New York City
Awolou Sossa

Fusing Spatial Kriging with Satellite Estimates to Obtain a Regional Estimation of PM2.5
Daniel Vidal

Cultivating Fine Dining Etiquette
Prof. Karen Goodlad
October 7, 2014

Research Scholars Luncheon
Mathematics Professor Mboyo Esole from Harvard University
October 30, 2014

IS901: Independent Study
MEDU 2901: Peer Leader Training in Mathematics

Prof. AE Dreyfuss

Funded by the Black Male Initiative, Perkins VTEA and CUE

How can a Peer Leader motivate students to come to Biology workshop?
Rimsha Azhar

How can the Peer Leader assist the students with studying strategies in a Biological Sciences workshop?
Manuela Hoyos

How does the use of images help students understand Biology?
Christopher Mason

How is a Math Workshop developed through relational leadership?
Francois Mertil

What behavioral patterns do students demonstrate in a Precalculus (Math 1375) Workshop?
Jeffrey Michel

What techniques are involved in remedying students' misconceptions in Mathematics (MAT 1175) workshop?
Rushdha Rafeek

What factors influence students' learning in a Statics workshop?
Ngima Tashi Sherpa

What techniques can the Peer Leader use to develop students' conceptual understanding in Chemistry workshop?
Yuly Chiang Yu

Acknowledgements

To the dedicated professors for mentoring students.

A heartfelt thank you for making this event a successful one:

Dean Karl Botchway
Dean Kevin Hom
Interim Dean David Smith
Prof. Julia Jordan
Ms. Laura Yuen-Lau
Mr. David Turkiew
Mr. George Lowe
Mr. Jeff Novak
Mr. Lubosh Stepanek
Ms. Shawn Beatty
Ms. Mursheda Ahmed

A special thank you to the judges of the poster competition:

Monica Berger
Reginald Blake
Aida Egues
Gaffar Gailani
Evgenia Giannopoulou
Pa Her
Paul King
Alberto Martinez
Ariane Masuda
Masato R. Nakamura
Mark Noonan
Hamidreza Norouzi
Patrick O'Halloran
Kara Pasner
Jonas Reitz
Jody Rosen
Diana Samaroo
Satyanand Singh
Davida Smyth
Liana Tsenova
Yu Wang

A special recognition and appreciation to
Mr. Raciel Guzman for designing the program.

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