



THE  
**19<sup>th</sup>**  
SEMI-ANNUAL  
POSTER PRESENTATION

**HONORS &  
EMERGING SCHOLARS**  
Poster Presentation

**LEARNING COMMUNITIES**  
Theme-Based  
Poster Presentation

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**Wednesday, December 4, 2013**  
11:00 AM - 4:00 PM  
Atrium Ground & First Floor

**Thursday, December 5, 2013**  
10:00 AM - 3:00 PM  
Atrium Amphitheater  
Awards Ceremony at 12:30 PM

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# AWARDS CEREMONY

December 5, 2013  
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 LIU-MARK**  
Director of the Honors Scholars Program

**LAURA YUEN-LAU**  
Coordinator of the Honors Scholars Program

## EMERGING SCHOLARS RECOGNITION

**SELWYN WILLIAMS**  
Director of Undergraduate Research

## LEARNING COMMUNITY RECOGNITION

**ESTELA ROJAS**  
Director of Learning Communities

## BEST POSTER AWARDS

**RENETA LANSQUOT**  
Assistant Director of the Honors Scholars Program



**NATIONAL SCIENCE FOUNDATION  
RESEARCH EXPERIENCE FOR UNDERGRADUATES**  
Scholars • 2013 - 2014

# HONORS COURSES

## **THREE WEEKS AND A DAY OF RAIN: BEFORE AND AFTER (PART ONE AND PART TWO)**

Thierno A. Bah, Yuly Y. Chiang, C.F. Sebastian Dalencourt, Jodel Delectable, Virginia R. Devi-Chou, Brian S. Francis, Elizabeth A. Horvath, Sabine Jean-Guillaume, George Murphy, Jeffrey L. Nelson, Agatha Ramirez, Geoffrey T. Robinson, Adebambo Shomoye, Chantal Stein, W. P. Kenny Tsang

Professors Jay Deiner, Alberto Martinez, Diana Samaroo, and Suresh Tewani

**CHEM 1210L:** General Chemistry II Laboratory - Honors Supported by Compact Funding



**BROOKHAVEN NATIONAL LABORATORY S-SAFE INTERNSHIP**  
July 2013



**NOAA CENTER FOR WEATHER AND CLIMATE PREDICTION**  
August 6, 2013



**GOVERNOR'S ISLAND**  
September 28, 2013

# HONORS IN A REGULAR COURSE

## **INTERACTION OF POLARITONS IN BOSE-EINSTEIN CONDENSATE**

Joe Nathan Abellard  
Profs. Oleg Berman and German Kolmakov  
**PHY 1434:** Physics 2.2

## **TRUSTED PLATFORM MODULE (TPM): INTRODUCTION AND APPLICATIONS**

Shamsan Ahmed  
Prof. Xiangdong Li  
**CST 3510:** Computer Security

## **THE THREATS TO STUDENTS' RIGHTS IN POST- SECONDARY EDUCATION**

Lucas Almonte  
Prof. Marco Castillo  
**GOV 2401:** Constitutional Law

## **HOW AUTHORS SEE THE WORLD: SIMILAR THEMES WITH VARYING PERSPECTIVES**

James-David Brown  
Prof. Nancy DiCostanzo  
**ENG 1121:** English Composition II

## **PROFILING PHAGES**

Frank Chendjou  
Prof. Davida Smyth  
**BIO 3302:** Microbiology Lab

## **PADE APPROXIMANTS AND CONTINUED FRACTIONS**

Thomas Cheung  
Prof. Satyanand Singh  
**MAT 3020:** Number Theory

## **GRAPHIC USER INTERFACE OF NEURAL NETWORK**

Komoliddin Fazliddin  
Prof. Hong Li  
**CST 3513:** Java Object Oriented Programming

## **MATERNAL INFANT AND CHILD HEALTH AMONGST MINORITY WOMEN**

Felicia Francis  
Prof. Audrey Hall  
**HEA 1102:** Community Health

## **REAL ANALYSIS: BOUNDEDNESS OF SETS BY WAY OF EXAMPLES**

Prabesh Gurung  
Prof. Satyanand Singh  
**MAT 1575:** Calculus II

## **WI-FI PROTECTED SETUP (WPS) EXPLOIT**

Nolan Hu  
Prof. Evan Siegel  
**CST 1201:** Programming Fundamentals

## **PADE APPROXIMANTS AND CONTINUED FRACTIONS**

Adam Ibrahim  
Prof. Satyanand Singh  
**MAT 3020:** Number Theory

## **ARTEMISININ AND DERIVATIVES: FROM HERBAL REMEDY TO TARGETED CHEMOTHERAPY AGAINST MALARIA**

Xiuyan Jin  
Profs. Suresh Tewani and Alberto Martinez  
**CHEM 3312:** Analytical Chemistry I

## **LET RETRIEVER-BOT DO IT FOR YOU**

Paul Julien  
Prof. Farrukh Zia  
**CET 4711:** Computer-Controlled Systems Design I

## **FACILITATING SUCCESSFUL REINTEGRATION OF EMPLOYEES AFTER PSYCHIATRIC HOSPITALIZATION**

Ruchoma Kaganoff  
Prof. Katherine Barboza  
**PSY 2404:** Personnel and Organizational Psychology

## **HOW THE SPICE TRADE INFLUENCED THE EVOLUTION OF FLAVORS IN EUROPEAN BREAD AND PASTRIES**

Jodian Laird  
Prof. Susan Lifrieri-Lowry  
**HMGD 4971:** Deluxe Desserts

## **CORRELATION BETWEEN SPT "N-VALUES" AND INTERFACE FRICTION ANGLE**

Yineng Liang  
Prof. Melanie Villatoro  
**CMCE 2456:** Soil Mechanics

## **FUNDAMENTAL PARTICLES AT THE LARGE HADRON COLLIDER**

Daniel Madray  
Prof. Giovanni Ossola  
**PHYS 1441:** Calculus Based Physics I

## **STRUCTURAL DESIGN FOR ARCHITECTS: A PRIMER**

Silvana F. Mastrolia  
Prof. Ramsey Dabby  
**ARCH 2480:** Principles of Stability

**REAL ANALYSIS: BOUNDEDNESS OF SETS BY WAY OF EXAMPLES**

Francois Mertil  
Prof. Satyanand Singh  
**MAT 1575:** Calculus II

**ADVERSE POSSESSION**

Alexandra Mosiyachenko  
Prof. Concetta Mennella  
**LAW 1202:** Real Estate Law

**BIOLOGIC EFFECTS OF RADIATION EXPOSURE**

Niki Patel  
Prof. Jennett Ingrassia  
**RAD 1125:** Radiographic Procedures I

**INTERACTION OF LIGHT WITH ELECTRONIC QUASIPARTICLES IN SEMICONDUCTOR NANOSTRUCTURE**

Rachel Rackal  
Prof. Oleg Berman and German Kolmakov  
**PHYS 1434:** Physics 2.2

**LET RETRIEVER-BOT DO IT FOR YOU**

Washington Sarmiento  
Prof. Farrukh Zia  
**CET 4711:** Computer-Controlled Systems Design I

**REAL ANALYSIS: BOUNDEDNESS OF SETS BY WAY OF EXAMPLES**

Adedamola Shomoye  
Prof. Satyanand Singh  
**MAT 1575:** Calculus II

**REAL ANALYSIS: BOUNDEDNESS OF SETS BY WAY OF EXAMPLES**

Yamba Subba  
Prof. Satyanand Singh  
**MAT 1575:** Calculus II

**BIOLOGIC EFFECTS OF RADIATION EXPOSURE**

Alicia Symister  
Prof. Jennett Ingrassia  
**RAD 1125:** Radiographic Procedures I



**BROOKLYN MUSEUM**

October 5, 2013



# EMERGING SCHOLARS

## **DIABETES: A POTENTIALLY DEADLY BUT MANAGEABLE DISEASE**

Sanzina Abedin  
Prof. Olufemi Sodeinde

## **INTERACTIONS OF POLARITONS IN BOSE-EINSTEIN CONDENSATES IN SEMICONDUCTOR HETEROSTRUCTURES**

Joe Nathan Abellard  
Profs. German Kolmakov & Oleg Berman

## **BACK FROM THE DEAD: AN EIDOPHUSIKON FOR RICHARD III STAGE TWO OF A MULTI-YEAR INTERDISCIPLINARY CURRICULUM PROJECT**

Christian Acevedo  
Profs. Christopher Swift & David B. Smith

## **A COMPARATIVE VIEW OF EXCITON, ATOMIC AND POLARITON BOSE-EINSTEIN CONDENSATES**

Istahad Ahmed  
Profs. German Kolmakov & Oleg Berman

## **TRUSTED PLATFORM MODULE (TPM): INTRODUCTION AND APPLICATIONS**

Shamsan Ahmed  
Prof. Xiandong Li

## **VIEW FROM THE TOP - ARCHITECTURAL MAGAZINE**

Tasnuva Ahmed  
Prof. Paul King

## **ADVANCING THE DREAM OF MARTIN LUTHER KING**

Oluwadare Akinfenwa  
Prof. Kathleen Falk

## **REINVENTING THE OFFICES FOR THE COMPUTER SYSTEMS TECHNOLOGY DEPARTMENT**

Cindy Alonzo  
Profs. Jill Bouratoglou & Lia Dikigoropoulou

## **REINVENTING THE OFFICES FOR THE COMPUTER SYSTEMS TECHNOLOGY DEPARTMENT**

Cynthia Alonzo  
Prof. Jill Bouratoglou & Lia Dikigoropoulou

## **THE HIGGS BOSON AND THE LARGE HADRON COLLIDER**

MD Arefin  
Prof. Andrea Ferrogli

## **PEER REVIEW AND THE JOURNAL OF URBAN TECHNOLOGY**

Roque Ayala  
Profs. Robert Leston & Richard Hanley

## **RESEARCH THE NETZERO PLUS 2 MICROCONTROLLER SYSTEM**

Erick Barros  
Prof. Edward Morton

## **SOLAR DECATHLON RESEARCH: CONCRETE WITH RECYCLED AGGREGATES. FINISHER OR STRUCTURE?**

Glenn Bell  
Prof. Alexander Aptekar

## **THE ARTISTIC INFLUENCE OF GENTRIFICATION IN BROOKLYN**

Leah Ruth Braithwaite  
Prof. Lisa Pope Fischer

## **EXPLORING LANDSAT IMAGERY FOR MONITORING THE EFFECT OF CLIMATE CHANGE ON LAKES**

Kevin Brathwaite  
Prof. Hamidreza Norouzi

## **TECHNOLOGY REVOLUTIONIZING THE HOSPITALITY INDUSTRY**

Jovany Bravo  
Prof. Patrick O'Halloran

## **MODELING AND ANALYSIS OF A FOLDABLE BICYCLE WITH DETACHABLE FRAME**

Jose Romeo Bugayong  
Prof. Angran Xiao

## **PERFORMANCE-BASED PARAMETRIC DESIGN MODELING**

Osmany Caberera  
Prof. Alexander Aptekar

## **SOLAR DECATHLON RESEARCH**

Walkiria Caberera  
Prof. Alexander Aptekar

## **SOLAR DECATHLON RESEARCH**

Mujun Chen  
Prof. Alexander Aptekar



**CULTIVATING FINE DINING ETIQUETTE**  
 Professor Karen Goodlad • October 8, 2013

**MATH SELF-EFFICACY JUDGMENT VERSUS MATH LEARNING ACHIEVEMENT**

Yanna Chen  
 Prof. Sandie Han

**PROFILING PHAGES**

Frank Chendjou Tounouga  
 Prof. Davida Smyth

**PADE APPROXIMANTS VERSES TAYLOR EXPANSIONS**

Thomas Cheung  
 Prof. Satyanand Singh

**THE EFFECTIVENESS OF A SIMPLIFIED ARTHROPOD GENOMIC DNA EXTRACTION PROTOCOL IN EXTRACTING ZONOCERUS VARIEGATES DNA FOR PCR-BASED SPECIMEN IDENTIFICATION**

Melanie Claire  
 Prof. Olufemi Sodeinde

**SILICONE MOLDING AND RESIN ENCAPSULATION**

Ricardo Clarke  
 Prof. Angran Xiao

**MEINA OF ALNEL: EXPLORING THE EFFECTS OF NARRATIVE-FOCUSED PROGRAMMING ON ROLE-PLAYING GAME DEVELOPMENT**

Tamrah Cunningham  
 Prof. Reneta D. Lansiquot

**SOLAR DECATHLON RESEARCH**

Geury De La Cruz  
 Prof. Alexander Aptekar

**CURCUMIN BENEFITS IN ALZHEIMER'S DISEASE (AD): ABILITY TO CHELATE METAL IONS AND INHIBIT REACTIVE OXYGEN SPECIES (ROS) PRODUCTION**

Mamadou Diallo  
 Prof. Alberto Martinez

**REINVENTING THE OFFICES FOR THE COMPUTER SYSTEMS TECHNOLOGY DEPARTMENT**

Michael DiCarlo  
 Prof. Jill Bouratoglou & Lia Dikigoropoulou

**MATHEMATICAL MODELING OF THE STRUCTURE OF A NEURON**

Juliet Dramadri  
 Prof. Sheila Miller

**SOLAR DECATHLON RESEARCH: CONCRETE WITH RECYCLED AGGREGATES. FINISHER OR STRUCTURE?**

Brendan Edwards  
 Prof. Alexander Aptekar

**FUNDAMENTAL PARTICLES AT THE LARGE HADRON COLLIDER**

Farjana Ferdousy  
 Prof. Giovanni Ossola

**CHRONICLING THE ACHIEVEMENTS AND ACTIVITIES OF HONORS SCHOLARS AT CITY TECH**

Felicia Francis  
 Prof. Reneta D. Lansiquot

**DESIGN OF A GAS ACTUATED TURBINE-DRIVEN LOADING MECHANISM**

Daniel Frederick  
 Prof. Angran Xiao

**SOLAR DECATHLON RESEARCH**

Tina Fredericks  
 Prof. Alexander Aptekar

**DESIGNING IPAD CURRICULUM FOR K-12 CLASSROOMS**

Arvid Friberg  
 Prof. Fangyang Shen

**MONITORING TEMPERATURE CHANGE IN NEW YORK CITY USING REMOTE SENSING**

Ryan Gabriel  
 Prof. Hamidreza Norouzi

**CAD/CAM INTEGRATION IN THE DEVELOPMENT OF INJECTION MOLDS**

Eddy Garcia  
 Prof. Angran Xiao

**SOLAR DECATHLON RESEARCH: THERMAL EXCHANGE - HEAT LOSS**

Isaias Garcia  
 Prof. Alexander Aptekar

**SOLAR DECATHLON RESEARCH: CONCRETE WITH RECYCLED AGGREGATES. FINISHER OR STRUCTURE?**

Meisha Guild  
 Prof. Alexander Aptekar



**REAL ANALYSIS: BOUNDEDNESS OF SETS BY WAY OF EXAMPLES**

Prabesh Gurung  
Prof. Satyanand Singh

**BACK FROM THE DEAD: AN EIDOPHUSIKON FOR RICHARD III. STAGE TWO OF A MULTI-YEAR INTERDISCIPLINARY CURRICULUM PROJECT**

Nicole Hamilton  
Profs. Christopher Swift & David B. Smith

**BACK FROM THE DEAD: AN EIDOPHUSIKON FOR RICHARD III. STAGE TWO OF A MULTI-YEAR INTERDISCIPLINARY CURRICULUM PROJECT**

Steven Harkins  
Prof. Christopher Swift & David B. Smith

**DESIGN AND FABRICATION OF POLYETHYLENE GLYCOL DIACRYLATE (PEGDA) BASED TISSUE SCAFFOLDS**

Nathan Horowitz  
Prof. Ozlem Yasar

**WI-FI PROTECTED SETUP (WPS) EXPLOIT**

Nolan Hu  
Prof. Evan Siegel

**PADE APPROXIMANTS VERSES TAYLOR EXPANSIONS**

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**ARTEMISININ AND DERIVATIVES: FROM HERBAL REMEDY TO TARGETED CHEMOTHERAPY AGAINST MALARIA**

Xiuyan Jin  
Profs. Alberto Martinez & Suresh Tewani

**FACTS VS MYTHS ABOUT TSA BODY SCANNERS RELATED TO HEALTH EFFECTS ON THE BODY**

Kirsten Johansen  
Prof. Zoya Vinokur

**SOLAR DECATHLON RESEARCH: NEW COST-EFFECTIVE MATERIALS. BUILDING AFFORDABILITY**

Corey Johnson  
Prof. Alexander Aptekar

**EFFECT OF SELECTED HERBS AND FRUITS ON TETRAHYMENA THERMOPHILA**

Daenna Joseph  
Prof. Ralph Alcendor

**FACILITATING SUCCESSFUL REINTEGRATION OF EMPLOYEES AFTER PSYCHIATRIC HOSPITALIZATION**

Ruchoma Kaganoff  
Prof. Katherine Barboza



**ADVANCING LIBRARY RESEARCH TECHNIQUES**

Professor Maura Smale • October 17, 2013

**EFFECT OF SELECTED HERBS AND FRUITS ON TETRAHYMENA THERMOPHILA**

Renuka Kaur  
Prof. Ralph Alcendor

**HERPES SIMPLEX VIRUS - THE UNINVITED GUEST THAT STAYS FOREVER: REPORT ON HSV-1 AND HSV-2**

Kimberly Lawrence  
Prof. Liana Tsenova

Facts vs Myths about TSA Body Scanners Related to Health Effects on the Body  
Maachah Lawrence  
Prof. Zoya Vinokur

**CORRELATION BETWEEN SPT "N-VALUES" AND INTERFACE FRICTION ANGLE**

Yineng Liang  
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**HOW THE SPICE TRADE INFLUENCED THE EVOLUTION OF FLAVORS IN European Bread and Pastries**

Jodian Laird  
Prof.

**CHRONICLING THE ACHIEVEMENTS AND ACTIVITIES OF HONORS SCHOLARS AT CITY TECH**

Liza Lei Luboa  
Prof. Reneta D. Lansiquot

**SOLAR DECATHLON RESEARCH: ENERGY HARVESTING -- MICROGENERATORS**

Chantal Manning  
Prof. Alexander Aptekar

**STRUCTURAL DESIGN FOR ARCHITECTS: A PRIMER**

Silvana Mastrolia  
Prof. Ramsey Dabby

**OBSCURING THE BOUNDARIES BETWEEN INTERIOR AND EXTERIOR SPACE: FROM TRADITIONAL TO CONTEMPORARY JAPANESE DESIGN**

Ana Matthews  
Prof. Esteban Beita Solano

**SOLAR DECATHLON RESEARCH: CONCRETE WITH RECYCLED AGGREGATES. FINISHER OR STRUCTURE?**

Zachary McSween  
Prof. Alexander Aptekar

**WASTE AND URBAN ECOLOGY IN NYC**

Alejandro Medina  
Prof. Benito Mendoza

**CHRONICLING THE ACHIEVEMENTS AND ACTIVITIES OF HONORS SCHOLARS AT CITY TECH**

Mandy Mei  
Prof. Reneta D. Lansiquot

**CHRONICLING THE ACHIEVEMENTS AND ACTIVITIES OF HONORS SCHOLARS AT CITY TECH**

Khroreece Mendoza  
Prof. Reneta D. Lansiquot

**FUNDAMENTAL PARTICLES AT THE LARGE HADRON COLLIDER**

Francois Mertil  
Prof. Giovanni Ossola

**PEER REVIEW AND THE JOURNAL OF URBAN TECHNOLOGY**

Michelle Militano  
Prof. Robert Leston & Richard Hanley

**CONTEMPORARY ARCHITECTURE IN CYPRUS**

Harold Morales  
Prof. Lia Dikigoropoulou

**ENERGY ANALYSIS OF A SUSTAINABLE DATACENTER POWERED AND COOLED BY WASTE-TO-ENERGY (WTE) FACILITIES**

Motiur Muhith  
Prof. Masato Nakamura

**DEVELOPING HEALTHCARE ONTOLOGY: FEVER**

Waqas Nasir  
Prof. Marcos S. Pinto

**SHREDDING PROCESS OF MUNICIPAL SOLID WASTE FOR DESIGNING A HIGH EFFICIENT COMBUSTION CHAMBER**

Kazi Naznin  
Prof. Masato Nakamura

**BACK FROM THE DEAD: AN EIDOPHUSIKON FOR RICHARD III. STAGE TWO OF A MULTI-YEAR INTERDISCIPLINARY CURRICULUM PROJECT**

Irina Nechaeva  
Prof. Christopher Swift & David B. Smith

**WAXY PLAQUE IN THE HEART: INCIDENCE, CAUSES AND MANAGEMENT OF CORONARY HEART DISEASE**

Asfia Noor  
Prof. Olufemi Sodeinde

**OBSCURING THE BOUNDARIES BETWEEN INTERIOR AND EXTERIOR SPACE: FROM TRADITIONAL TO CONTEMPORARY JAPANESE DESIGN**

Loyra Nunez  
Prof. Esteban Beita Solano

**CLONING OF THE SEROTONIN 2A RECEPTOR FROM THE LEAST SHREW**

Jennifer Ortiz  
Prof. Jeremy Seto

**FABRICATION AND MECHANICAL CHARACTERIZATION OF TISSUE ENGINEERED SCAFFOLDS WITH POLYDIMETHYLSILOXANE (PDMS) AND POLYETHYLENE GLYCOL DIACRYLATE (PEGDA)**

David Owoeye  
Prof. Ozlem Yasar

**EFFECT OF SELECTED HERBS AND FRUITS ON TETRAHYMENA THERMOPHILA**

Kenneth Paneto  
Prof. Ralph Alcendor



**NBC STUDIO**  
October 25, 2013

**CHRONICLING THE ACHIEVEMENTS AND ACTIVITIES OF HONORS SCHOLARS AT CITY TECH**

Patricia Persaud  
Prof. Reneta D. Lansiquot

**DYNAMICS OF PHOTogenerated CARRIERS IN SEMICONDUCTOR HETEROSTRUCTURES**

Rachel Rackal  
Profs. German Kolmakov & Oleg Berman

**CHRONICLING THE ACHIEVEMENTS AND ACTIVITIES OF HONORS SCHOLARS AT CITY TECH**

Walter Rada  
Prof. Reneta D. Lansiquot

**SOLAR DECATHLON RESEARCH**

Farhana Rahman  
Prof. Alexander Aptekar

**OBSCURING THE BOUNDARIES BETWEEN INTERIOR AND EXTERIOR SPACE: FROM TRADITIONAL TO CONTEMPORARY JAPANESE DESIGN**

Erick Ramirez Miranda  
Prof. Esteban Beita Solano

**BACK FROM THE DEAD: AN EIDOPHUSIKON FOR RICHARD III. STAGE TWO OF A MULTI-YEAR INTERDISCIPLINARY CURRICULUM PROJECT**

Michael Rinaldi  
Profs. Christopher Swift & David B. Smith

**EFFECTIVENESS OF LEARNING COMMUNITIES IN MIDDLE & HIGH SCHOOLS**

Renautha Rose  
Prof. Estela Rojas

**HERPES SIMPLEX VIRUS - THE UNINVITED GUEST THAT STAYS FOREVER: REPORT ON HSV-1 AND HSV-2**

Yuleisy Ruiz  
Prof. Liana Tsenova

**MENTORING MINORITY NURSING STUDENTS**

Peggy Saint-Vil  
Profs. Elaine Leinung & Aida Egues

**BACK FROM THE DEAD: AN EIDOPHUSIKON FOR RICHARD III. STAGE TWO OF A MULTI-YEAR INTERDISCIPLINARY CURRICULUM PROJECT**

Andrew Schild  
Profs. Christopher Swift & David B. Smith

**MUNICIPAL SOLID WASTE (MSW) MANAGEMENT IN NEW YORK CITY. FIELD WORK: SAMPLING NYC-MSW**

Ivan David Segura  
Prof. Masato Nakamura

**STOCHASTIC MODEL OF FOOD WASTE GENERATION IN NYC FOR URBAN ECOLOGY**

Abraham Setiawan  
Prof. Masato Nakamura

**REAL ANALYSIS: BOUNDEDNESS OF SETS BY WAY OF EXAMPLES**

Adedamola Shomoye  
Prof. Satyanand Singh

**ADDING RSS TO A WEB PAGE: DISTRIBUTION OF NEWS HEADLINES AND SYNDICATED COLUMNS**

Masaab Sohaib  
Prof. Marcos S. Pinto

**MATH SELF-EFFICACY JUDGMENT VERSUS MATH LEARNING ACHIEVEMENT**

Awolou Sossa  
Prof. Sandie Han

**DESIGN SCHEDULING ALGORITHMS FOR HIGH DENSITY SENSOR NETWORKS**

John Soto  
Prof. Fangyang Shen

**EFFECT OF SELECTED HERBS AND FRUITS ON TETRAHYMENA THERMOPHILA**

Dalanda Sow  
Prof. Ralph Alcendor

**PERCEPTIVITIES IN PLANAR PROJECTIONS**

Maciej Stelmach  
Prof. Michael C. Duddy



**DEVELOPING AND DELIVERING EFFECTIVE RESEARCH PRESENTATIONS**

Professors Justin Davis & Jody Rosen • October 31, 2013

**THE EFFECTS OF POSITIVE REFRAMING ON EMOTIONAL STRESS AND WELL-BEING**

Eleanor Strehl  
Profs. Jean Kubeck Hillstrom & Pa Her

**REAL ANALYSIS: BOUNDEDNESS OF SETS BY WAY OF EXAMPLES**

Yamba Subba  
Prof. Satyanand Singh

**TURBULENCE OF EXCITONS IN BOSE-EINSTEIN CONDENSATE IN SEMICONDUCTORS**

Georgiy Tishinskiy  
Profs. German Kolmakov & Oleg Berman

**THE CHALLENGES TO PROMOTING SUSTAINABLE ECONOMIC GROWTH IN A CONSUMER DRIVEN MARKET ECONOMY**

Dennis Trotter  
Prof. Sean P. MacDonald

**GREEN TECHNIQUES, ASSEMBLIES, & LIVING IN NEW YORK CITY**

Elena Tugusheva  
Prof. Alexander Aptekar

**THE NATURE AND IMPLICATIONS OF NON-VERBAL COMMUNICATION IN SERVICE ENCOUNTERS: A REVIEW OF THE LITERATURE**

Elizabeth Ubinas  
Prof. Gerry Van Loon

**NORMATIVE STANDARDS FOR THE TOWER OF LONDON**

Jesam Usani  
Prof. Daniel Capruso

**SOLAR DECATHLON RESEARCH: INNOVATIVE INSULATION SYSTEMS AND THEIR EFFICIENCIES**

Agata Whyte  
Prof. Alexander Aptekar

**STUDYING THE PHOTOSENSITIZING EFFECTIVENESS OF BACTERIOCHLORINS**

Andrew Wills  
Prof. Diana Samaroo

**SOLAR DECATHLON RESEARCH: NATURAL HUMIDIFYING SYSTEMS**

Mohamed Yakoob  
Prof. Alexander Aptekar

**FACTS VS MYTHS ABOUT TSA BODY SCANNERS RELATED TO HEALTH EFFECTS ON THE BODY**

Xavia Yarde  
Prof. Zoya Vinokur

**2 BRIDGES REVIEW**

Michael Youmans  
Prof. George Guida

**SOLAR DECATHLON RESEARCH**

Yuliya Zavolunova  
Prof. Alexander Aptekar



**FEDERAL HALL NATIONAL MEMORIAL**  
November 8, 2013

# LEARNING COMMUNITIES THEME BASED PROJECTS

## **THE COMPOSITION OF HAPPINESS: ASSESSING THE RHETORIC & REALITY OF WELL-BEING**

Wesley Ackley, Jonathan Chea, Katherine Culajay, Takiera Hester, Ivan Martinez, Eunice Sanchez, Dina Yusupov  
Profs. Jill Belli and Justine Pawlukewicz

**ENG 1101:** English Composition I

**HUS 1101:** Introduction to Human Services

## **MAY I BE OF SERVICE?**

### **GENERAL EDUCATION IN MY LEARNING COMMUNITY**

Kaveesh Singh

### **MY FIRST YEAR EXPERIENCE AT CITY TECH**

Alicia Ngai

### **36 HOURS IN...**

Breyona George and Diana Kilby

Profs. John Akana, Karen Goodlad, and Laura Westengard

**ENG1101:** English Composition I

**HMG1101:** Perspectives in Hospitality Management

**HMG1102:** Introduction to Food and Beverages Management

## **MONEY TALKS: ECONOMICS AND ENGLISH**

### **WILL YOUR COLLEGE MAJOR MAKE YOU MONEY?**

Jennifer Alvarez, Shania Benjamin, Kamall Bernard, Himu Granguli, Fernando Morales, Jeinny Reanos, Imani Rush, Vitaliy Ten, & Akeem Watson

Profs. William Kenton and Sean P. MacDonald

**ENG 1101:** English Composition I

**ECON 1101:** Macroeconomics

## **STORY-TELLING IN ROLE-PLAYING AND ACTION-ADVENTURE GAMES**

### **2117: TOTALITARIAN US**

Zachery Channer, Michael Herbas, Junjie Huang, and Kevin Reynoso

### **CIRCLES**

Joshua Allison, Trey French Kenton, Christopher Latorre, and Steven Yee

### **LIVE FOR GOLD**

Ivan Chen, Lurii Druchuk, and Erick Suazo

### **OMEN OF THE END**

Ricardo Garcia, Ramsey De Jesus Liriano, Paul Mendez, and Daniel Mo

### **OVERDRIVE**

Samuel Laloi, Erik Speights, and Jie Wu

### **SCHRÖDINGER'S WORKSHOP**

Tykila Mccray, Noel Melendez, Olajide Odunaiké, and Hilario Salas

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

**CST 1101:** Computer Programming and Problem Solving

**ENG 1101:** English Composition I

**CST 1100:** Introduction to Computer Systems

## **DRAWING, MAKING AND WRITING: THE CONSTRUCTION AND COMPOSITION OF IDEAS**

Jesus Alvarez, Justin Bennett, Edgar Carrillo, Daniel Castillo, Slava Colombo, Matthew Colon, Tristen Demmett, Kasheem Floyd, Yi Jiang, Melanie Louie, Javier Morelos, Joel Nunez, Daniel Oomman, Demetri Parker, Stephany Paulino, Yerbis Pena, Cytia Persaud, Farjana Shati, Yefeng Yan  
Profs. Sean Scanlan and Kenneth Conzelmann

**ENG 1101:** English Composition I

**ARCH 1110:** Architectural Design I – Foundations

## **EAT YOUR WORDS**

Agatha Amoako, Oscar Bonilla, Amanda Colon, Francis Figueroa, Oreanna Folk, Salona Johnson, Ivan Lee, Brianna Maniscalco, Cindy Mui, Samuel Osterczy, Mariam Said, Kevin Saldivar, Tyrell Samaroo, Jialun Xiao, Kai Young, Alan Zhao  
Profs. Rebecca Devers and M. Genevieve Hitchings

**ENG 1101:** English Composition I

**ADV 1162:** Raster and Vector Graphics

## **EXPLORATIONS: USING QUALITATIVE AND QUANTITATIVE TOOLS TO UNDERSTAND THE LIFE SYSTEMS AROUND AND WITHIN US**

Nelsy Alonso, Waleed A Alsabahi, Kristen Basdeo, Stephan Bheemsainroy, Nathaly Borbon, Kai A Boxill, Shivonnie Brown, Kimberly L Bush, Jason P Caldit, Timothy Chui, Nathaly Concepcion, Kadeem Dublin, Brittany R Fleming, Beatriz Garcia, Yerlin Gomez, Keila Gordon, Irram Iqbal, Mariyam Khan, Cecilia Lascano, Alejandra Lezama, Ann Lin, Janice Mardakhaev, Sharry Mei, Gabriela E Moran, Nemah M Nassir, Raphael M Nieves, Beatrice Obeney, Natalie Perez, Shalamar Raimie, Majestic M Rivas, Tiffany L Rose, Roberta Selvatico, Brandy Severino, Clifton Sturdivant, Christopher Torres, Melissa Triolo, Angeline Vargas, Anesa Vucetovic, Erica M Wong, Melvin Zapata

Profs. Suzanne Miller, Jeremy Seto, and Lin Zhou

**ENG 1101:** English Composition I

**BIO 1101:** General Biology 1

**MAT 1175:** Fundamentals of Mathematics

## **DO THE RIGHT THING: MORAL CHOICES AND EVERYDAY LIFE**

Shamima Akther, MuhammadAslam, Shekira Barry, Makaala Bonamy, Wilmer Chauca, Pei Chen, ArunaChowdari, Vanessa Contreras, Belny Cruz, Yasmine Hassan, Paula Henry, Alejandro Hernandez, David Laboriel, Anthony Martinez, Earlton Massenburg, Shakan Paris, Samuelle Principale, Malick Sidibe, NathaliaTello, Kevaun Whitby, Leon Xu, Tyra Young, Sanad Zahrieh  
Profs. Barbara Chutroo and Jennifer Sears

**PSY 1101 D823-88993** Introduction to Psychology

**ENG 1101 D347** English Composition 1



# SPECIAL PROJECTS

## **THE EFFECT OF TARGETED WEEKLY E-COMMUNICATION ON ADJUNCT FACULTY AT CITY TECH**

Kevin Rajaram and Matthew Joseph  
Web Master & CST student and Design Intern & ADGA Student  
Faculty Commons

**ABSTRACT:** Adjunct faculty at New York City College of Technology have traditionally not responded to college-wide announcements due to either a lack of targeted communication to address the needs to this specific group or a lack of participation. Faculty who were made aware of the organized information via weekly emails in spring 2013 increased the amount of traffic to the website thereby improving the College's ability to communicate with these faculty members.

## **PRIME GAPS AND OTHER NUMBER THEORETIC RESULTS**

Amean Abdelfattah, Christopher Chan, Thomas Cheung, Abel Fernandez, Adam Ibrahim, Jose Jimenez, Alassane Ngaide, Stanislav Shur, Bikkaram Singh, Benjamin Zeng and Suhua Zeng  
Prof. Satyanand Singh

**MAT 3020:** Number Theory

**ABSTRACT:** We will present a smorgasbord of examples in number theory with solutions via computer algebra system. We will then culminate our discussions with recent advances in the prime gap conjecture.

## **STREETSIDE SCIENCE: USING DNA BARCODING TECHNOLOGY TO EXPLORE BIODIVERSITY IN MOLECULAR AND CELL BIOLOGY LAB**

Rimsha Azhar, Toni Batiste, Monika Balaban, Lynn Jean, Benjamin Joseph, Denise King, and Stephanie Urena  
Profs. Jeremy Seto & Ghassan Yehia

**BIO3620L:** Molecular and Cell Biology Laboratory

## **REAL ANALYSIS: BOUNDEDNESS OF SETS BY WAY OF EXAMPLES**

Francois Mertil  
Prof. Satyanand Singh

## **NSF LOUIS STOKES ALLIANCE FOR MINORITY PARTICIPATION (LSAMP) PROGRAM**

Program Coordinator: Ms. Jodi-Ann Young

## **VSAT: PRINCIPLES AND APPLICATIONS**

Tollisha Thompson  
Prof. Mohammad Razani

## **WIRELESS AND FIBER OPTICS**

Mamadou Bah  
Prof. Asm Delowar Hossain

## **SCHEDULING IN SENSOR NETWORKS**

Daniel Caban  
Prof. Fangyang Shen

Joe Nathan Abellard  
Prof. Xiaohai Li

Muhammed Abubakar  
Prof. Muhammad Ali

## **RESEARCH EXPERIENCES FOR UNDERGRADUATES IN SATELLITE AND GROUND-BASED REMOTE SENSING AT NOAA-CREST 2**

NSF REU Grant # AGS-1062934  
Prof. Reginald Blake and Prof. Janet Liou-Mark

## **LAG-CORRELATION ANALYSIS OF THE APRIL 2013 FLOOD EVENT IN ARGENTINA**

Jhonatan Alvizurez

## **A COMPARISON OF SATELLITE LAND SURFACE TEMPERATURE WITH STATION MEASURED TEMPERATURE FOR IMPROVED DETECTION OF FROZEN GROUND**

Sikha Basnet

## **CORRELATIONS BETWEEN AEROSOLS PSDS & PRECIPITATION IN PUERTO RICO**

Sergio Bracho

## **USING MULTIPLE INSTRUMENT MEASUREMENTS TO ASSESS INTEGRATED WATER VAPOR PATH FROM A MULTISPECTRAL MICROWAVE RADIOMETER**

James Fallon

## **THE EFFECTS OF GLOBAL WARMING ON TEMPERATURE & PRECIPITATION TRENDS IN NORTHEAST AMERICA**

Felicia Francis

## **VALIDATION AND CALIBRATION OF THE SWAT HYDROLOGICAL MODEL AND SNTERM SNOWPACK MODEL IN WATERSHEDS OF CANNONVILLE, NEW YORK**

Benjamin Joseph

## **USING REMOTE SENSING AND FIELD OBSERVATIONS OF COLORED DISSOLVED ORGANIC MATERIAL (CDOM) TO IMPROVE UNDERSTANDING OF CARBON DYNAMICS AT THE LAND-OCEAN INTERFACE**

Lena Lai



**GROUND REFERENCE AND ANCILLARY DATA  
VALIDATION OF FREEZE-THAW STATE PRODUCTS OF  
ALASKA**

Berenice Oseguera

**TEACHING HIGH SCHOOL STUDENTS MACHINE  
LEARNING ALGORITHMS TO ANALYZE FLOOD RISK  
FACTORS IN RIVER DELTAS**

Renautha Rose

**ESTABLISHING A CORRELATION BETWEEN THE URBAN  
HEAT ISLAND (UHI) EFFECT IN NEW YORK CITY AND  
THE LAND COVER**

Awolou Sossa

**DEVELOPING HIGH RESOLUTION AOD IMAGING  
COMPATIBLE WITH WEATHER FORECAST MODEL  
OUTPUTS FOR PM2.5 ESTIMATION**

Daniel Vidal

**INTER-ANNUAL COMPARISON OF SATELLITE  
PASSIVE MICROWAVE DATA WITH GROUND BASED  
RADIOMETRIC MEASUREMENTS**

Guan Nian Zeng

**CREATING AND SUSTAINING DIVERSITY IN THE  
GEO-SCIENCES AMONG STUDENTS AND TEACHERS IN  
THE URBAN COASTAL ENVIRONMENT OF NEW YORK  
CITY**

NSF ODEG Grant #1108281

**NEW YORK CITY RESEARCH INITIATIVE (NSF OEDG)  
SATELLITE EARTH SURFACE TEMPERATURE:  
AVERAGING PROCESS AND VALIDATION**

Jumel Villaroel, Tuan Thai, and Myesha Blanchard  
Mr. Steven Ligator (George Westinghouse Technical High  
School)

Dr. Yasser Hassebo, LaGuardia Community College

**IS901:** Independent Study

**MEDU 2901:** Peer Leader Training in Mathematics

The Black Male Initiative, Perkins VTEA, and CUE Funding

Dr. AE Dreyfuss

**WHAT READ STRATEGIES HAVE STUDENTS  
IMPLEMENTED IN BIOLOGY 1101?**

Hikma Abdulghani

**HOW DO STUDENTS IN MATHEMATICS (MAT1175)  
BENEFIT FROM VYGOTSKY'S ZONE OF PROXIMAL  
DEVELOPMENT?**

Joe Nathan Abellard

**WHAT TECHNIQUES CAN THE PEER LEADER USE TO  
ENGAGE STUDENTS IN A MATHEMATICS (MAT1275)  
WORKSHOP?**

Frank Chendjou

**HOW CAN BLOOM'S TAXONOMY SUPPORT STUDENTS'  
LEARNING IN WORKSHOP IN A MARKETING (MKT1100)  
COURSE?**

Monika Ciereszko

**HOW CAN THE PEER LEADER BUILD A SUPPORTIVE  
ENVIRONMENT FOR STUDENTS IN A BIOLOGY 1101  
WORKSHOP?**

George Cobos

**WHAT FACTORS CAN HELP STUDENTS PERSIST IN A  
MATHEMATICS (MAT1175) WORKSHOP?**

Abel Fernandez

**HOW CAN THE PEER LEADER PROVIDE SCAFFOLDING  
IN A BIOLOGY 1101 WORKSHOP?**

Shannan Massry

**HOW CAN STUDENTS LEARN FROM THEIR MISTAKES  
IN A MATHEMATICS (MAT1175) WORKSHOP?**

Leonardo Perez

**HOW DOES THE PEER LEADER LEAD A WORKSHOP OF  
STUDENTS WITH VARIOUS LEARNING STYLES IN THE  
STATICS 1 (CMCE 1115) WORKSHOP?**

Ian Petersen

**WHAT READING TECHNIQUES IN BIOLOGY 1101  
SUPPORT STUDENTS' LEARNING?**

Loudjina Pierre

**HOW CAN THE PEER LEADER DEVELOP STUDENTS'  
UNDERSTANDING OF INSTRUCTIONS IN ELECTRO-  
MECHANICAL MANUFACTURING LAB (EMT1130)?**

Andris Pinkhasik

**WHAT READING STRATEGIES SUPPORT STUDENT  
LEARNING IN A BIOLOGY 1101 WORKSHOP?**

Ayesha Rasool

**HOW DOES CHANGING GROUP SIZE AFFECT STUDENTS  
IN A MATHEMATICS (MAT1175) WORKSHOP?**

Julia Rivera

**HOW DOES CHANGING PARTNERS IN ELECTRO-  
MECHANICAL MANUFACTURING LAB (EMT1130)  
SUPPORT STUDENTS IN WORKSHOP?**

Adedamola Shomoye

**WHAT STRATEGIES CAN THE PEER LEADER USE TO  
MOTIVATE STUDENTS IN A MATHEMATICS (MAT1275)  
WORKSHOP?**

Bing Jing Zheng



**DESIGNING A RESEARCH POSTER PRESENTATION**  
Ms. Jodi-Ann Young • November 14, 2013



**PLTL PEER LEADERS**  
Fall 2013

# ACKNOWLEDGEMENTS

**TO ALL THE DEDICATED PROFESSORS FOR MENTORING STUDENTS. A HEARTFELT THANK YOU FOR MAKING THIS EVENT A SUCCESSFUL ONE:**

Dean Karl Botchway  
Dean Kevin Hom  
Prof. Julia Jordan  
Dr. AE Dreyfuss  
Ms. Jodi-Ann Young  
Ms. Laura Yuen-Lau  
Mr. David Turkiew  
Mr. George Lowe  
Mr. Teddy Adolthe  
Mr. Jeff Novak  
Mr. Lubosh Stepanek  
Ms. Shawn Beatty  
Ms. Mursheda Ahmed  
Mr. Christopher Chan  
Ms. Felicia Francis  
Mr. Alex Liang

**A SPECIAL THANK YOU TO THE JUDGES FOR THE POSTER COMPETITION:**

Reginald Blake  
Renata Budny  
Gwen Cohen-Brown  
Aida Egues  
Paul King  
Alberto Martinez  
Hamidreza Norouzi  
Diana Samaroo  
Cinda Scott  
Liana Tsenova  
Lin Zhou  
Ms. Jodi-Ann Young

A special recognition and appreciation to **Ms. Mandy Mei** for designing the program.

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## **GRADUATE SCHOOL FAIR ORGANIZING COMMITTEE**

Associate Provost Pamela Brown, Reginald A. Blake, Reneta D. Lansiquot, Janet Liou-Mark, Mandy Mei, Sheila Miller, Ariane Masuda, Selwyn A. Williams, and Laura Yuen-Lau