

DYSON COLLEGE OF ARTS AND SCIENCES

**THIRTY-SIXTH
ANNUAL MEETING
OF
THE SOCIETY OF FELLOWS**



SATURDAY, MARCH 4TH, 2017

PACE UNIVERSITY

ONE PACE PLAZA

NEW YORK, NY

**THE SOCIETY OF FELLOWS
DYSON COLLEGE OF ARTS AND SCIENCES
PACE UNIVERSITY**

**THIRTY-SIXTH ANNUAL MEETING
SATURDAY, MARCH 4TH, 2017
ONE PACE PLAZA**

10:00 a.m. **Check-in and Breakfast** – Bianco Room

10:45 a.m. **Annual Meeting Welcome** – Bianco Room

11:00-12:40 p.m. **Plenary Session** – Bianco Room

12:45-2:00 p.m. **Luncheon and Poster Session** – Student Union and Reading Room
(adjacent to Student Union)

2:15-3:15 p.m. **First Concurrent Afternoon Panel Sessions 1 through 9**

3:30-4:30 p.m. **Second Concurrent Afternoon Panel Sessions 10 through 18**

Panel Sessions are located in classrooms on the 3rd Floor East Wing and
the Bianco Room of One Pace Plaza

4:45-5:30 p.m. **Reception and Awards Ceremony** – Student Union

**The Society of Fellows Executive Board wishes to thank and acknowledge all
Faculty Sponsors and Moderators for their support of
The Society of Fellows of Dyson College of Arts and Sciences**

THE SOCIETY OF FELLOWS
DYSON COLLEGE OF ARTS AND SCIENCES
PACE UNIVERSITY

THIRTY-SIXTH ANNUAL MEETING

10:00 a.m. **Check-in and Breakfast** – Bianco Room

10:45 a.m. **Annual Meeting Welcome** – Bianco Room

Dr. Maria T. Iacullo-Bird
Assistant Dean, Dyson College of Arts and Sciences

Dr. Nira Herrmann
Dean, Dyson College of Arts and Sciences

11:00-12:40 p.m. **Plenary Session** – Bianco Room

*A Study of Gentrification and Residential Rents in Bushwick and
Williamsburg, Brooklyn*

George-Ann Ryan
Faculty Sponsor: Dr. Anne J. Bynoe

Preparation and Applications of Silicone Composites as an Artistic Medium

Taylor Longenberger
Faculty Sponsor: Dr. Joseph W. Krumpfer

*"I Now Pronounce You Husband and Wife" ...But Wait, We're Gay! Marriage
as a Space for Same-Sex Couples*

William De Feis
Faculty Sponsor: Dr. Jason Whitesel

General Tso's Journey to USA: The Importance of Authenticity in Food Choice

Katie Li
Faculty Sponsor: Dr. Amy C. Foerster

12:45-2:00 p.m. **Luncheon** – Student Union
Presiding, Dr. Nira Herrmann
Dean, Dyson College of Arts and Sciences

Poster Session – Student Union and Reading Room

Blue Tape Society: The Importance of Pop-Ups
Annabelle Krupcheck; Faculty Sponsor: Prof. Jillian M. McDonald

Functional Characterization of the Human $\beta 2b$ I354T Mutation Associated with Epilepsy
Salma Allam; Faculty Sponsor: Dr. Zafir K. Buraei

Amyloid Forming Sequences in Trichomonas Vaginalis-Phase II
Ami Asakawa; Faculty Sponsor: Dr. Cho Chan

Chemical and Structural Analysis of Metronidazole and its Derivatives
Solmaz Azimi; Faculty Sponsor: Dr. Rita K. Upmancis

Monitoring with Optical Spectroscopy the Interactions of Hemoglobin with Nanomaterials
Tabitha Batte; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

Examining the Mechanical and Anti-Bacterial Properties of Crosslinked Silicone Materials and Coatings
William Bender; Faculty Sponsor: Dr. Joseph W. Krumpfer

Greening the Inorganic Chemistry Laboratory
Tyler Brescia; Faculty Sponsor: Dr. Rita K. Upmancis

Releasing the Pursuit of Bouncing and Behaving Hair: Natural Hair as an Afrocentric Feminist Aesthetic for Beauty
Alyssa Chambers; Faculty Sponsor: Dr. Deborah M. Poe

Evaluation on the Interaction of Nanomaterials with Enzymes (Catalase and Lipase) Using Optical Spectroscopy
Kaitlyn Chhe; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

Spectroscopic Properties of Hydroxycinnamic Acids at Different Ph
Josephine Farshi; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

A New Approach to Drug Discovery for the Treatment of Cryptosporidiosis
Mohini Gobin; Faculty Sponsor: Dr. Nigel R. Yarlett

A Molecular Mechanism for Alzheimer's Disease: The Effects of WT and Mutants Presenilin M146V and D275A on Trpc5 Channel Function
Paris Hanson; Faculty Sponsor: Dr. Zafir K. Buraei

Poster Session (continue) – Student Union and Reading Room

Analysis of Sulfa Drugs Using Raman Spectroscopy and Density Functional Theory (DFT) Calculations

Alexis Javornik; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

Discrimination of Fluoroquinolone Antibiotics Using Raman Spectroscopy

Ashley Kuptsow; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

RNA Interference (Rnai) Screen to Identify New Genes That Control Fertilization and Embryo Development

Emily Lopes; Faculty Sponsor: Dr. Matthew R. Marcello

Surface Modification of Silicone Materials via Displacement Reactions with Organosilicon Monomers

Dymin Morillo; Faculty Sponsor: Dr. Joseph W. Krumpfer

Raman Spectroscopy and Density Functional Theory Calculations of Phenolic Acid Derivatives

Samantha Pace; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

Optimizing the Conditions for the Hplc Separation of Illicit Drugs/Amphetamines

Lauren Reilly; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

Hydrophobization of Inorganic Oxide Surfaces via Siloxane Equilibration

Kaleigh Ryan; Faculty Sponsor: Dr. Joseph W. Krumpfer

Polymerization within Giant Unilamellar Vesicles Prepared by Gentle Hydration of Hybrid Agarose/Lipid Films

Emanuel Smith; Faculty Sponsor: Dr. Sergey V. Kazakov

Binding of Tetracyclines with Nanoceramics

Hunter Tonn; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

Shea Butter Infused with Natural Oils to Generate a Novel and Natural Antimicrobial Moisturizer

Amanda Tremblay; Faculty Sponsor: Dr. JaimeLee I. Rizzo

Infusion of Native Oils to Synthesize Novel Antibacterial Surfaces

Kenya Velez; Faculty Sponsor: Dr. JaimeLee I. Rizzo

Phenol Content and Antioxidant Activities of Different Commercial Tea Samples

Amanda Villaggi; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

Use of Different Methods to Extract Active Compounds from Bee Propolis

Lyric Wyan; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

First Concurrent Afternoon Panel Sessions – 2:15-3:15 p.m.

Session 1 **Analytical Chemistry I: Chromatography and Spectroscopy – Room E316**
2:15-3:15 p.m. **Moderator: Dr. Elmer-Rico E. Mojica**

Analysis of NSAIDs (Non-Steroidal Anti-Inflammation Drugs) in Environmental Water Samples

Elijah Jones; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

Human Serum Albumin Binding Interaction with Nanomaterials

Tyler Nolan; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

Evaluating the Water Quality from Selected Billion Oysters Project (BOP) Restoration Sites

Jahaira Zapata; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

Session 2 **Literary Studies I: Urban Perspectives – Room E317**
2:15-3:15 p.m. **Moderators: Dr. Michael H. Finewood and Dr. Robert J. Mundy**

Three Walks/One Talk: Writing the City, University, and Self

Audrey Arcari

Maria Castiglia

Faculty Sponsors: Dr. Michael H. Finewood and Dr. Robert J. Mundy

Constructing Nature in New York City: Assessing Green Gentrification in Chelsea through the Pier 55 Project

Leanna Molnar; Faculty Sponsors: Dr. Michael H. Finewood and Dr. Robert J. Mundy

Session 3 **Historical Perspectives on Marriage and Immigration – Room E318**
2:15-3:15 p.m. **Moderators: Dr. Joseph Tse-Hei Lee and Dr. Barbara Blumberg**

Shifting Traditional Paradigms in Contemporary China

Ilona Kereki; Faculty Sponsor: Dr. Joseph Tse-Hei Lee

Antoun- Anthony: First Wave Arab Immigration

Katharine Anthony; Faculty Sponsor: Dr. Barbara Blumberg

Session 4 **The Economics of Health Care Policy – Room E323**
2:15-3:15 p.m. **Moderator: Dr. Anna Shostya**

The Relationship Between Heroin Use and Prescription Opiate Use in the United States

Candice Cordova; Faculty Sponsor: Dr. Gregory Colman

The Economics of Cancer Care and Mortality Rates

Latrell Gray Jones-Booker; Faculty Sponsor; Prof. Sam S. Baruch

Food Deserts and Obesity, Diabetes, and Life Expectancy

Elizabeth Lipov; Faculty Sponsor: Dr. Anna Shostya

Session 5 **International Economics – Room E324**
2:15-3:15 p.m. **Moderators: Dr. Joseph C. Morreale and Prof. Mark L. Weinstock**

The Effect of the Marginal Corporate Tax Rate on Domestic Investment in OECD Countries

Charles Valvo; Faculty Sponsor: Dr. Joseph C. Morreale

Causes and Policy Implications of Dollarization in Cambodia

Kilian Tep; Faculty Sponsors: Prof. Isabelle M. Delalex and Prof. Sam S. Baruch

Lasting Effects From Colonization

De'Ja Cox; Faculty Sponsor: Prof. Mark L. Weinstock

Session 6 **The Economics of Health, Wealth & Expectations – Room E325**
2:15-3:15 p.m. **Moderator: Dr. Gregory Colman**

Does Gentrification Affect Birth Rates?

Amanda Sorrentino; Faculty Sponsors: Prof. Kier F. Hanratty and Dr. Anna Shostya

The Impact of Age and Motherhood on Women's Wages

Ava Kratzinger; Faculty Sponsor: Dr. Gregory Colman

Hysteresis and its Impacts on Cognitive Ability and Depression

Melissa Navas; Faculty Sponsor: Dr. Gregory Colman

Do Demographics Affect the Accuracy of Consumer Inflation Expectations Over Time

Klejdja Qosja; Faculty Sponsor: Dr. Gregory Colman

Session 7
2:15-3:15 p.m.

Public Policy and Social Enterprise – Room E326
Moderators: Dr. Gina Scutelnicu and Dr. Rebecca Tekula

Participatory Budgeting and Government Accountability in New York City
Ashley Kuenneke; Faculty Sponsor: Dr. Gina Scutelnicu

The Correlation between the National Average Wage and the Employment Growth of Clinical Laboratory Scientist
Cathy Qi Tan; Faculty Sponsor: Dr. Gina Scutelnicu

Program-Related Investments in U.S. private non-operating foundations
Eileen Lee Fung; Faculty Sponsor: Dr. Rebecca Tekula

Session 8
2:15-3:15 p.m.

Strategies for Global Peace and Reconciliation – Room E327
Moderator: Dr. Emily E. Welty

Reintegration of Female Perpetrators
Sydney Tisch; Faculty Sponsor: Dr. Emily E. Welty

The Impact of Launching a Gender-Focused Truth Commission on the Experiences of Indigenous Women During the Forced Sterilizations on 1960s and 1970s
Yasmine Coccoli; Faculty Sponsor: Dr. Emily E. Welty

Truth and Reconciliation After the Greensboro Massacre
Terrie Soule; Faculty Sponsor: Dr. Emily E. Welty

Session 9
2:15-3:15 p.m.

Anxiety: An Epidemic (Performance) – Bianco Room
Moderators: Prof. Ion Cosmin Chivu

Holly Wright
Ryan Beagbler
Sam Casey
Quinn Corcoran
Erin Dilorio
Thomas Pastor
Faculty Sponsor: Prof. Ion Cosmin Chivu

Second Concurrent Afternoon Panel Sessions – 3:30-4:30 p.m.

Session 10 **Analytical Chemistry II: Drug Discovery and Drug Delivery –**
3:30-4:30 p.m. Room E316
Moderators: Dr. Sergey V. Kazakov and Dr. Irina G. Gazaryan

Lipobeads: Effect of Lipid Bilayer Fluidity on Formation of Unilamellar Coating on the Microgels

Sarah Rahni; Faculty Sponsor: Dr. Sergey V. Kazakov

Metals as Triggers of Antioxidant Genetic Program

Linh Nguyen; Faculty Sponsor: Dr. Irina G. Gazaryan

Oxyquinolines Triggering Antihypoxic and Antioxidant Programs

Olga Byesyedina; Faculty Sponsor: Dr. Irina G. Gazaryan

Session 11 **Literary Studies II: From Milton, to Gogol, and Morrison – Room E317**
3:30-4:30 p.m. **Moderators: Dr. Erica L. Johnson, Dr. Rebecca E. Martin, and**
Dr. Andriy Danylenko

When the Priest Turns Atheist: Applying the Barthesian Paradigm to Paradise Lost

John Corbett; Faculty Sponsors: Dr. Erica L. Johnson and Dr. Sid E. Ray

Analysis of Toni Morrison's Beloved: Sethe Claims her Motherhood by killing her Daughter

Sania Azhar; Faculty Sponsor: Dr. Rebecca E. Martin

Was Taras Bulba Ever Russian?

Yuliya Palianok; Faculty Sponsor: Dr. Andriy Danylenko

Session 12 **Film and Media Analysis – Room E318**
3:30-4:30 p.m. **Moderator: Dr. Bette H. Kirschstein**

The Exorcist: Monstrosity Based on the Foreign and the Familiar

Hayden Dabbs; Faculty Sponsor: Dr. Catherine Zimmer

Same Fear, Different Devices: Media Moral Panics

Alexa McKenna; Faculty Sponsor: Dr. Marcella T. Szablewicz

Session 13 **Sociological Analysis of Race, Gender, and Culture – Room E323**
3:30-4:30 p.m. **Moderator: Dr. Judith Pajo**

Race and Ethnicity through the Lens of Social Media
Catherine Salazar; Faculty Sponsor: Dr. Judith Pajo

Gender Equality Amongst the Islamic Population
Kaltrina Mulosmani; Faculty Sponsor: Dr. Judith Pajo

No Femmes: Masculinity in Manhattan
Alphonse Gonzales; Faculty Sponsor: Dr. Judith Pajo

Fan Culture: The One Direction Connection
Kristina Leibold; Faculty Sponsor: Dr. Judith Pajo

Session 14 **The Economics of Education – Room E324**
3:30-4:30 p.m. **Moderators: Prof. Kier F. Hanratty and Dr. Gregory Colman**

Easy Graders: The Effect of Adjunct Faculty on Grade Inflation
Lilay Hagos; Faculty Sponsor: Dr. Gregory Colman

Financial Literacy of College Students
Cherrnal Lewis; Faculty Sponsor: Prof. Kier F. Hanratty

It's More Than Just an Education: Measuring "Sheepskin Effects"
Kelly Lester; Faculty Sponsor: Prof. Mark L. Weinstock

The Effect of Sexual Assault on Cumulative GPA
Melissa Bowley; Faculty Sponsor: Dr. Gregory Colman

Session 15 **The Economics of Markets – Room E325**
3:30-4:30 p.m. **Moderators: Prof. Mark L. Weinstock and Prof. Sam S. Baruch**

What Factors Influence Concert Industry Success?
Marcela Pertusi; Faculty Sponsor: Prof. Sam S. Baruch

The Effect of Google Trends Data on House Prices
Haley Racicot; Faculty Sponsor: Dr. Gregory Colman

Low Income Rental Affordability and Labor Market Dynamics
Jonathan O'Kane; Faculty Sponsors: Prof. Sam S. Baruch and Prof. Kier F. Hanratty

The Role of Renewable Energies in the Liberalized German Electricity Market
Maximilian Rychwalski; Faculty Sponsor: Prof. Mark L. Weinstock

Session 16 **Studies in Criminal Justice – Room E326**
3:30-4:30 p.m. **Moderator: Dr. Hasan T. Arslan**

The Knights of People: Human Trafficking Task Force (HTTF)
Michael Palazzi; Faculty Sponsor: Dr. Hasan T. Arslan

Impaired Justice: Mentally Ill and the Police Use of Force Policies
Brittany Mendez; Faculty Sponsor: Dr. Hasan T. Arslan

Session 17 **Psychological Assessment of Trauma – Room E327**
3:30-4:30 p.m. **Moderators: Dr. James B. McCarthy and Dr. Maren Westphal**

The Late Adolescent Trauma of Frida Kahlo and Her Identity as an Artist
Jordan Falco; Faculty Sponsor: Dr. James B. McCarthy

*The role of mental health counselors in treating veterans with co-occurring
posttraumatic stress disorder and substance use disorders in primary care*
Nilton Castro; Faculty Sponsor: Dr. Maren Westphal

Session 18 **The Could've-Beens (Performance) – Bianco Room**
3:30-4:30 p.m. **Moderators: Prof. Adrienne S. Kapstein**

Joe Reault
Brandon Adam
Sam Casey
Preston Fox
Alexander Knezevic
Andrew Newman
Octavio Yattah
Faculty Sponsor: Prof. Michael Goldfried

4:45-5:30 p.m. **Reception and Awards Ceremony – Student Union**
Presiding, Dr. Maria T. Iacullo-Bird
Assistant Dean, Dyson College of Arts and Sciences

ANNOUNCEMENTS AND UPCOMING EVENTS

**The Dyson Society of Fellows Annual Initiation Ceremony
will take place on the evening of Thursday, April 27th 2017
Pace University, New York Campus**

Transactions – Call for Papers

Full research papers/artistic projects submitted to the 2017 Annual Meeting will be considered for publication. It is highly recommended that students edit their Annual Meeting papers with their faculty sponsors and resubmit. Please forward revised submissions or submit new entries by Friday, June 30th, 2017

**Society of Fellows 2017 Annual Weekend Seminar
October 6-8, 2017, Warwick, New York**

The Society of Fellows of Dyson College is the premier honors organization in the College. The Fellows foster dialogue and scholarship across the fields of the arts and sciences through enriching experiences for students with exceptional academic and artistic abilities. The Society of Fellows provides students with opportunities to develop intellectual interests and present their work to the university community. Membership in the Society of Fellows gives recognition to this advanced level of student participation and achievement. Faculty who participate in Society of Fellows events and sponsor students also receive recognition as Fellows.

Each fall the Fellows host the Weekend Seminar where students, faculty, and alumni engage in discussions on a chosen topic in a casual, off-campus setting, usually in upstate New York. At the Society of Fellows Annual Meeting, which is a one-day student conference held in early spring, students showcase their faculty-mentored scholarly research and artistic projects. The official journal of the Society, *Transactions*, publishes outstanding work written by Pace University students under the sponsorship of faculty members, many of whom are Fellows. New members are recognized at the Initiation Ceremony held at the end of the spring semester. More information about the Society of Fellows is available on the Pace University website.