

TRANSFORMATIONS

A Student Research and Creativity Conference
April 25-26, 2024

Thursday, April 25

Keynote Address

Sperry Center, Room 104, 4:30 p.m.

Kevin Dames, *Associate Professor, Kinesiology*
Recipient of the 2024 Dr. Peter DiNardo '68
and Judith Waring Outstanding Achievement
in Research Award

Friday, April 26

Student Presentations

Bowers Hall 10:20 a.m.-4 p.m.

Writing Gala

Dowd Fine Arts Center, Dowd Gallery
5-7 p.m.

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Transformations 2024 - Schedule at-a-glance

Thursday, April 25, 2024, 4:30 – 5:30 PM

Sperry Center, Room 104, Lecture Presentation

2024 Dr. Peter DiNardo '68 and Judith Waring Outstanding Achievement in Research, Award Recipient and Keynote Speaker, Dr. Kevin Dames, Associate Professor, Kinesiology

Friday, April 26, 2024, 10:20 – 11:20 AM

Bowers Hall, Contributed Talks I

Session I – Room 339: General Interest

Moderator: Erin Morris, Sport Management

Presentation 1 Title: Using Exercise to Reduce the Physical Symptoms of Parkinson's Disease

Student Presenter(s):

- Isabella Granahan, Exercise Science
- Aveleen McGinn Unkauf, Exercise Science
- Jason Hoffman, Exercise Science
- Emma Gillis, Exercise Science
- John Catapano, Exercise Science

Presentation 2 Title: Identifying TTX Producing Bacteria in *Bipalium kewense* and *Bipalium adventitium*

Student Presenter(s):

- Elizabeth DuBois, Biology

Presentation 3 Title: Celebrating HOLI – A Festival of Colors on Campus

Student Presenter(s):

- Grace Buscemi, Therapeutic Recreation
- Alexamder Cantone, Recreation Management
- Julian Deroziere, Recreation Management
- Abigail Gibson, Recreation Management
- Joseph Kane, Outdoor Recreataion
- Abigail Loiselle, Therapeutic Recreation
- T'ziah Owens, Recreation
- Carlene Palmer, Recreation
- Sophia Royce, Therapeutic Recreation
- Natalie Witt, Social Philosophy
- Su Mon Aye, Recreation

Presentation 4 Title: The Dynamics of Particles Around Upside Down Black Holes

Student Presenter(s):

- Angel Chauca Rosendo, Physics and Mathematics

Session 2 - Room 1119: The European Union as a Global Actor

Moderator: Scott Moranda, History

Presentation 1 Title: European Union's EU Policy Regarding Ukraine and Moldova and Migration

Student Presenter(s):

- Joshua Bates, History
- Ava Graziano, Community Health
- Layla Myers, International Studies

- Andrada Rat, International Studies

Presentation 2 Title: European Union's Strategy in the Indo-Pacific Region

Student Presenter(s):

- Sarah O'Connor, International Studies
- Asha Younas, International Studies
- Donald Bosman, International Studies

Presentation 3 Title: European Union's Policy in the Arctic

Student Presenter(s):

- Emma Efig, History
- Victoria Quick, International Studies

Session 3 - Room 1213: Summer Undergraduate Research Showcase

Moderator: Maria Timberlake, Foundations and Social Advocacy

Presentation 1 Title: Mental Health and Well Being Among College Based EMS (CBEMS) Providers

Student Presenter(s):

- Kyla Young, Biomedical Sciences

Presentation 2 Title: The Effects of Acute Mountain Illness on the Human Body

Student Presenter(s):

- Rachel Romero, Exercise Science

Presentation 3 Title: The Books that Bind: Analyzing Banned Book Effort's Effect on Public Education

Student Presenter(s):

- Emma Stack, Adolescence Education

Presentation 4 Title: Using Commercial Soil Testing Kits to Understand the Effects

Student Presenter(s):

- Ryan Baumgartner, Archaeology

Presentation 5 Title: Resolving Commingling and the Identification of Human Remains at the State University of New York at Cortland

Student Presenter(s):

- Caleigh Pfalzer, Criminology and Anthropology

Friday, April 26, 2024, 11:30 AM – 12:30 PM

Bowers Hall, First Floor Lobby, Poster Session A

- Logan Streety – Prevalence of Mental Health Issues in Division III Athletes
- Audrey Cozine – Effects of Invasive Jumping Works on Native Vegetation's Above and Belowground Growth
- Michael Catoggio – Kinetic Investigation of Short Chain Dehydrogenase Reducatases
- Sean Zupko – Characterization of Novel Orotate Phosphoribosyltransferase Using a Structure-Function Approach
- Dwayne Jones and Adrianna Calangelo – Use of Genetically Altered Cells to Detect Volatile Chemicals
- Edie Russo – The Effects of Cellularly Dynamics of Flower size Throughout Development of Nocitiana Section Repandae Polyploids
- Shalise Hill – Effects of Nutrient Restriction on Productive Responses in Early Lactation Ewes
- Khi Atchinson – The Most Stretched Quartz in the World
- Andrew Kidder – Land Cover Change Analysis of Restoration of the North Aral Sea, Kazakhstan, 2000 to 2014
- Bryanna DeAngelis – The Relationships Between Parental and Youth Physical Activity Behaviors and Perceptions
- Aydan Coughlin – Mindfulness and Problematic Internet Use: The Moderating Role of Stress
- Emily Grucello – Social Media Usage and Tendency to Conform Among College Students

- Mackenzie Dickman and Sophia Pugsley– The Impact of Internet Access on the Strategies Used to Malingering Dissociative Identity Disorder
- Hannah Goodwin, Jordan King, Emma Miraglia, Mareangela Servedio, Ava Roper, Luke Pelchar and Joseph Defeo – The Effect of Environmental Enrichment on Nicotine-Primed Ethanol Consumption in Adolescent Female Rats
- Madison Hodges – GIS Analysis of Redlining on Urban Forest Composition in New York City
- Rachel Curatolo – Taylor Swift and her Midas Touch: A Case Study for Sustainable Action Opportunities in Moments of Economic Boon
- Blandine Aussant – Analyse CIG de la Fumée Noire and du Carbone Provenant des Feux de Forêts Québécoises dans l'État de New York en 2023

Friday, April 26, 2024, 12:40 – 1:40 PM

Bowers Hall, Contributed Talks II

Session 1 – Room 1119: Interns Reveal Secrets of the Past and Present

Moderator: Sharon Steadman, Anthropology

Presentation 1 Title: Lessons Learned: Managing an Archeology Lab

Student Presenter(s):

- Grace Beauchamp, Archaeology

Presentation 2 Title: Ancient Diets: Archaeobotanical Techniques

Student Presenter(s):

- Janet Martinez, Archaeology
- Anna Tanzman, Archaeology

Presentation 3 Title: The Real Work after Fieldwork: Old Harbor, Alaska

Student Presenter(s):

- Kathryn Cosman, Archaeology

Presentation 4 Title: Exhibiting Global Ways of Life in the Brooks Museum

Student Presenter(s):

- Joel Krick, Anthropology
- Corra Smyntek, Anthropology

Session 2 – Room 1120: In Search of Fatmax: Controlled Settings, Field Testing, and Future Considerations

Moderator: Erik Lind, Exercise Science

Presentation 1 Title: Walking for Pleasure, Burning the Fat: Subjective Responses Approximate to Maximal Fat Oxidation Intensities

Student Presenter(s):

- Madison Heffern, Exercise Science

Presentation 2 Title: Fuel Utilization During Inclined Walking on a Normal Treadmill Compared to a Lower Body Positive Pressure Treadmill

Student Presenter(s):

- Mary Savi, Exercise Science

Presentation 3 Title: Alter(in)G My Zone: Investigating a Maximal Fat Oxidation Protocol in Athletic Females

Student Presenter(s):

- Eric Thomas, Exercise Science

Presentation 4 Title: Where is My Fatmax? Field Testing of Fuel Utilization at Zone 2 Exercise Intensity

Student Presenter(s):

- Natalie Aquino, Exercise Science

Session 3 – Room 1213: Elderly and at Risk: A quantitative Study on Financial Scam Vulnerability

Moderator: Kathleen Burke, Economics

Presentation 1 Title: Social Media and Its Negative Impacts on Adults

Student Presenter(s):

- Intaek park, Psychology

Presentation 2 Title: Foreign Language Learning Motivation in the U.S. Public School System

Student Presenter(s):

- Ryan Lerner, Spanish

Presentation 3 Title: Beyond Rainbows: Silent Revolution in Queer Expressions Beyond Western Binaries

Student Presenter(s):

- Isabella Scala-Palladino, Social Philosophy

Friday, April 26, 2024, 1:50 – 2:50 PM

Bowers Hall, First Floor Lobby, Poster Session B

- Bailee Guernsey – Physiological Responses of Monkeyface Pricklebacks (*Cebidichthys Violaceus*) to Temperature Increases
- Bradley Blake – Using Random Mutants to Study *Legionella Micdadei* Biofilms
- Alyssa Perrino – Developing PCR Protocols to Discern Genes Associated with the Production of Flavonols Within *Nicotiana Section Polydicliae Protyploids*
- Brooke Tillotson – The Development of a PCR Protocol to Study the Genes Responsible for Creating Floral Anthocyanins in *Nicotiana Clevelandii* and *N. Quadrivalvis* Allopolyploids
- Cole Mura and Ava Miranov – Mechanisms of Fission and Regeneration in the Terrestrial Planarian *Bipalium Kewense*
- Angel Alicea-Morales – Unveiling *Campylobacter Jejuni*'s Pathogenicity: Insight into AspA Enzyme and Potential Therapeutic Targets
- Mason Blake and Anthony Cawley – The Role of Sport and Exercise Science in Sports Coaching: Perspectives and Practices
- Anna Stahurski – Exploring Attitudes and Views of Nature of Science Among First Semester Students in an Introductory Science Class for Future Teachers
- Ella Kelly – Exploring the Project Approach and Reggio Emilia and their Approach to Literacy
- Sara Brown, Jordan King, Gabriela Solis, Miranda Aldrich and Sebastian Patino – An Exploration of the Link Between Antagonism and Identity Pathology
- Sasha Machmuller, Alyssa Wicks and Malana Booker – A Content Analysis of Intimate Partner Violence in the Television Show *Euphoria*
- Katharine Rudelic, Emily Sommer and Alexa Suero – Examining the Validity of a Measure of Sentence Construction Among Elementary-Age Students
- Joseph Vaglio – UV-vis and Fluorescence Spectra of Disubstituted Phenylbenzo[d] 1,3,2-diazaboroles
- Sarah Kono, Dustine Isso and Christopher Faherty – Effects of Polymer Additives in Amorphous Pharmaceuticals
- Alexander Rash – Synthesis of 2-phenyl-5-Benzo[d] 1,3,2-diazaborole Analogues
- Kuba Szulejko – IPN Synthesis

Friday, April 26, 2024, 3:00 – 4:00 PM

Bowers Hall, Contributed Talks III

Session 1 – Room 1120: Student Research in Anthropology

Moderator: Hollis Miller, Anthropology

Presentation 1 Title: A Historical Perspective on the Pollution of Onondaga Lake

Student Presenter(s):

- Haley Tanner, Anthropology

Presentation 2 Title: Historical Ecology of Onondaga Lake: Flora and Fauna

Student Presenter(s):

- Olivia Morrison, Anthropology

Presentation 3 Title: Recreational Use of Onondaga Lake

Student Presenter(s):

- Ronde Wood, Anthropology

Presentation 4 Title: Onondaga Lake Cleanup Efforts

Student Presenter(s):

- Jennifer Baker, Anthropology and Sociology

Presentation 5 Title: Measuring the Effectiveness of NAGPRA in New York State Institutions

Student Presenter(s):

- Caleigh Pfalzer, Anthropology and Criminology

Session 2 - Room 1129: General Interest

Moderator: Hilary Wong, Library

Presentation 1 Title: Approaches to the Synthesis of Photocleavable and Membrane Permeable APPPI, an Andogeneous Inhibitor of the Mitochondrial ATP/ADP Translocase

Student Presenter(s):

- Sophia Boccio, Biochemistry

Presentation 2 Title: Base-promoted Synthesis of Phosphate Esters from H-phosphonates

Student Presenter(s):

- Tazio Cutrona, Biochemistry

Presentation 3 Title: Response of Stress Related Genes in Eastern Oysters Exposed to Plastic Leachate

Student Presenter(s):

- Makiah Poli, Biology

Presentation 4 Title: Examining Evolutionary Pressures on Flavonoid Biosynthetic Pathway Genes in Nicotiana Species with Different Flower Colors

Student Presenter(s):

- Abigail McCoy, Biomedical Sciences

Session 3 – Room 1213: Histories of Sports, Empire, And Nationalism in the UK and Ireland

Moderator: Scott Moranda, History

Presentation 1 Title: Was Tennis Irish Enough? Women's Tennis and Irish Nationalism

Student Presenter(s):

- Emma Efang

Presentation 2 Title: Beyond the Bell: Jack Johnson's Pursuit to Redefine Racial Dynamics in the British Empire

Student Presenter(s):

- James Dobbins, History

Presentation 3 Title: Constructed Irish Nationalism: Depicting Irish Identity from 1900 – 1930 through Dance, Gender, and Nationalism

Student Presenter(s):

- Anna Verwij, History and Adolescence Education

Presentation 4 Title: Differing Perspectives on the Gaelic Athletic Association at the End of the Troubles in Northern Ireland

Student Presenter(s):

- Colin Aleci, History and Adolescence Education

Friday, April 26, 2024, 5:00 – 7:00 PM

The Writing Gala

Dowd Fine Arts Gallery