

WILLIAM PATERSON UNIVERSITY



EXPLORATIONS

RESEARCH, SCHOLARSHIP, & CREATIVE EXPRESSION

APRIL 02 - MAY 05, 2018 | EVENTS CAMPUS-WIDE



EXPLORATIONS 2018:

Research, Scholarship and Creative Expression at William Paterson University

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12th Annual Undergraduate Research Conference

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Poster and Cover Art
John McElrone, Undergraduate Student,
Prof. Matt Finn, Art Department

SCHEDULE AT-A-GLANCE



April 10

Interdisciplinary Poster Sessions

12:30 to 1:45, Science Hall Lounge

April 12

Interdisciplinary Poster Sessions

12:30 to 1:45, UC Ballrooms B&C

College of Education

12:30 to 2:30, UC Student Center 216

Cheng Library Authors Reception and OSP Recognition Awards

3:30 to 5:00, UC Ballroom A

April 13

Paterson Metropolitan Region Research Center

Atrium Auditorium, 10:00 to 5:00

April 14

12th Annual Undergraduate Research Symposium

UC Ballrooms, 8:00 to 5:30

April 17

Honors Research Week Presentations

9:00 to 4:00, UC 168A&B, and

7:00 to 9:00, Cheng Auditorium

College of Science and Health

11:00 to 3:15, UC Ballroom A

Technology Across the Curriculum

11:00 to 12:15, UC 171A&B

Interdisciplinary Presentations #1

2:00 to 3:15, UC 171A&B

Cotsakos College of Business

11:00 to 1:45, Valley Rd Auditorium

April 18

Honors Research Week Presentations

12:30 to 4:30, UC 168A&B

Interdisciplinary Presentations #2

11:00 to 12:15, UC 171A&B

***Sonic Divide*, a film**

12:30 to 2:30, Cheng Library Auditorium

April 19

Honors Research Week Presentations

9:00 to 3:00, UC 168A&B

Interdisciplinary Presentations #3

11:00 to 12:15, UC 171A&B

College of Arts and Communication

12:30 to 1:45, UC 171A&B

Interdisciplinary Presentations #4

12:30 to 1:45, UC Student Center 216

Office of Sponsored Programs

2:00 to 3:15, UC 171A&B

College of Humanities and Social Sciences

2:00 to 3:30, Atrium 126

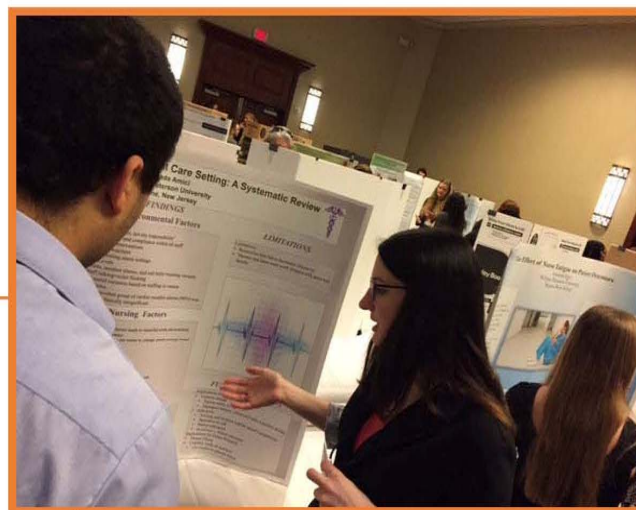
WILLIAM PATERSON UNIVERSITY



Honors College

The University Honors College at William Paterson University is a place where academically gifted students explore new ideas and engage in intellectual and creative collaborations with experienced and dedicated members of the faculty. It offers a rigorous curriculum with a challenging array of courses, seminars, and co-curricular activities. The University Honors College provides a comprehensive educational experience that brings together the academic, residential, social, and cultural experiences of its students. It is open to students in all colleges and majors. Nearly 400 students are currently enrolled in the Honors College.

Honors College students participate in a first-year program of Honors courses in the University Core Curriculum. Subsequently, they pursue an interest through one of the 10 honors research or creative tracks, in addition to the disciplinary major. The tracks prepare the student for independent research and result in a senior-level thesis or creative project.



Raubinger Hall
Room 154
973.720.3657
honors@wpunj.edu



Find us on Facebook!
William Paterson University Honors College

www.wpunj.edu/honors



12th ANNUAL UNDERGRADUATE RESEARCH SYMPOSIUM

Saturday, April 14, 2018

You are cordially invited to attend and present your research at the 12th annual Undergraduate Research Symposium in the Biological and Chemical Sciences at William Paterson University of New Jersey. In its 12th year, this regional symposium provides an excellent forum for undergraduate researchers to present their original work at a regional meeting. Posters are invited in the following areas of research:

**Physiology, Behavior, Cell & Molecular Biology, Genetics
and Ecology & Evolution, Environmental Science**

**Organic and Inorganic Chemistry, Biochemistry, Nano
Chemistry, General & Physical Chemistry and Materials
Chemistry**

Posters will be judged by a panel of attending Mentors and awards will be presented to the best undergraduate poster presenters. Participant Abstracts will be published in a Symposium Proceedings. For more information and Free Registration log onto:

www.wpunj.edu/cosh/departments/biology/urs/

Or: <http://www.wpunj.edu/cosh/departments/chemistry/wpu-research-symposium.html>

Send your Abstract and Registration by March 26,
2018 at: biochemurs@wpunj.edu

PLENARY SPEAKER:

Professor Rigoberto Hernandez,
Gompf Family Professor of
Chemistry & Director of (OXIDE),
Johns Hopkins University
“Benign By Design, From The
Nanoscale To The Human Scale”



SCHEDULE:

Registration & Breakfast
8:00 – 8:45 am
Welcome and Opening Remarks
8:45 – 9:15 am
Poster Session A
9:15 – 11:15 am
Lunch Break
11:45 – 1:00 pm
Plenary Talk
1:00 – 2:00 pm
Poster Session B
2:00 – 4:00 pm
Awards Ceremony
4:30 – 5:00 pm

PLACE:

University Commons
Ballroom

Paterson Metropolitan Region Research Center Annual Conference

Sponsored by William Paterson University



Paterson

Through the

ARTS

ATRIUM

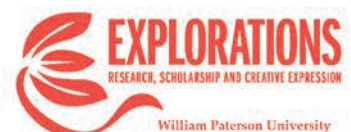
Friday, APRIL 13, 2018

Program Schedule

- 10:30 am – 11:30 am Screening of **All That Lies Between Us**
- 11:45 am – 12:45 pm **Artist Panel 1**
- 12:45 pm – 1:45 pm Lunch and Book launch of **Paterson Lives**
- 2:00 pm – 3:15 pm **Artist Panel 2**
- 3:30 pm – 5:00 pm **Poster session** and display of artwork created by **Paterson School 12 Third Graders**

This event is open to the public.

Refreshments will be served.



Sponsored, Interdisciplinary and Poster Session Detailed Schedules

Tuesday, April 10

Interdisciplinary Poster Session

12:30 to 1:45, Science Hall Breezeway

Joanne Affinito, Nursing

Recognizing Burden in Unpaid Caregivers of End Stage Renal Disease Patients

Ksawery Biskup, Austin Degan, Michael Griffiths, Environmental Science

Environmental evaluation of mid-atlantic coastal wetlands from paired geochemical and diatom analysis of sediments

Charles Faulkner, Psychology

Football Archival Study

David Hack, Kinesiology

Motivations and Objectives for Corporate Sponsorship of Gay Games IX

Mariam Hammouda, Zoe Meleo-Erwin, Corey Basch, Aleksandar Kecojovic, Public Health

A narrative analysis of Pre-Exposure Prophylaxis (PrEP) YouTube Videos

Jonathan Harris, Jeremy Scott, Allison DellaBella, Jennifer Callanan, Michael DaSilva, Gregory Pope, Matthew Hazen, Environmental Science

Investigation of soil chemistry one year after the 16 mile fire, Delaware State Forest, PA

Djanna Hill, Jyoti Champanerkar, Department of Secondary/ Middle School Education

STEM4EDU: Recruitment and Retention of Science and Math Teachers Who Inspire Learning in High Needs Districts

Ma. Veronica Holganza, Kevin Martus, Jaishri Menon, Department of Biology

Plasma Exposure and Tail Regeneration: The Interplay of Calcium with Mitochondria and Peroxisomes.

Jenny Jeanpierre, Ruchael McNair, Jordan Stewart, Amy Learmonth, Psychology

Three-year-olds use of information in the environment in an object search task

Weihua Liu, Bogong Su, Michael Greco, Dev Dave, Camila Murillo, Natalia Zaytseva, Computer Science

Preliminary Study of Machine Learning Techniques for Software Performance Prediction

Lara LoBue, Meredith Connolly, Amy Learmonth, Psychology

Imitation in Children with ASD: Goal Completion Ability

Aura Lora, Toni LaSala, Michael Figueroa, Kinesiology

The Acute Physiological Adaptations of High Intensity Interval Training on an Anti-Gravity Treadmill

Kem Louie, Betty Kollia, Persephone Vargas, Michael Figueroa, Toni Lasala, Racine Emmons Hindelong, Nursing

Evaluation of Interprofessional competencies among graduate nursing students, communication disorder and exercise science students

Maitry Mahida, Natalie Lindemann (Obrecht) , Psychology
Credibility and Salience predict increased Risk Perception, but do not lead to an Inverted U-shape function

Tyler Mortensen, Racine Emmons, Michael Figueroa, Kinesiology
The Effect of Sucrose vs Non-Nutritive Sweeteners on Blood Glucose Levels During Exercise

Jose Munoz, Biology
The Effects of Modulation of a Potassium Channel on Social Behavior After a Traumatic Brain Injury

Nicholas Murray, Amy Learmonth, Psychology
Creating a Virtual Space to Better Understand Human Navigation

Samantha Nieves, Jashri Menon, Kevin Martus, Chemistry
*Characterization of a Plasma Source used to Accelerate Wound Healing of the Tadpole *Xenopus Laevis**

Andrea Pereda, Abigail Urena, Reem Shair, Karinna Gonzalez, Aleksandar Kecojevic, Public Health
Exploring Support for 100% Tobacco-Free Campus Policy at WPU

Sharon Puchalski, Renee Pevour, Gina Pasquale, Nursing
Perceptions and experiences of undergraduate nursing students in pharmacology: Strategies for Success

Sharon Puchalski, Nicole Despirito, Nursing
Physical Activity: Utilizing guidelines to promote health among pregnant women

Rachelle Romero, Corey Basch, Public Health
Health Information Seeking Among College Students

Allison Salehi, Jyoti Champanerker, Mathematics
How long will your iPod last?

Alexandrina Sorokina, Ksawery Biskup, Karliann Blumenfeld, Austin Degen, Richard Plattel Nazila Yekanifard, Jennifer Callanan, ENV 3760 Fall 2017 Students of Soil and Water Analysis, Environmental Science
Analysis of Non-Point Source Pollution of Oldham Pond

Sara Steinel, Computer Science
A Knowledge Discovery Approach to Mental Health Problems in New York City: Phase One

Bogong Su, Erh-Wen Hu, Jian Wang, Computer Science
Software Performance Prediction at Source Level

Abigail Urena, Karinna Gonzalez, Reem Shair, Pereda Andrea, Aleksandar Kecojevic, Public Health
Use of campus-wide events and social media to support Tobacco-Free Campus Initiative at WPU

Miryam Wahrman, Amanda Nowakowski, Biology
Differential adherence of bacteria to microfiber and scrubs

Thursday, April 12

Interdisciplinary Poster Session

12:30 to 1:45, UC Ballrooms B&C

Janet Ahn, Johnathan Foley, Charles Faulkner, Psychology and Chemistry
Physical Chemistry Class Study

Lydia Albuquerque, Daria Napierkowski, Nursing
Predictors of readmissions among heart failure patients

Diana Bae, Kevin Sales, SoYon Rim, Psychology
Social Exclusion and Empathic Accuracy

Diana Bae, Kevin Sales, SoYon Rim, Psychology
Social Distance and Memory for Pictures vs. Words

Judy Bernstein, Languages and Cultures
Stigmatized Englishes (LANG 3010) and Structure of Language (LANG 3050) Posters

Caylynn Carls, Jamie Dubinski, Psychology
Youth Concussions in American Football: What We Know and What We Need to Know

Ben Chianchiano, Jason Wicke, Kristen Bowe, Sara Garner, Kinesiology
Comparing Electromuscularstimulation as a Warm-up Technique vs. Traditional Dynamic Warm-ups and its Influence on Athletic Performance.

Megan Conrad, Govinda Mota, Psychology
Does anthropomorphism decrease children's learning about zoo animals?

Racine Emmons, Michael Figueroa, Toni LaSala, Kinesiology
Postprandial Lipemic Responses after a High-Fat Meal and Low- or High-Intensity Interval Exercise

Philip Garcia, Corey Basch, Public Health
Celiac Disease on YouTube

Sara Garner, Jason Wicke, Samantha Legreaux, Ben Chianchiano, Kinesiology
Deceleration-focused shoulder rehabilitative strategies in baseball and softball athletes.

Christi Kline, Clint Mautz, Environmental Science
Nautiloid Cephalopods from Glacial Erratics: Evidence for Lag Deposit Formation in the Rickard Hill Facies of the Saugerties Member of the Schoharie Formation (Lower Devonian-Late Emsian), Helderberg Mountain Region, New York State, U.S.A.

Toni LaSala, Jordan Cola, Genevieve Pinto Zipp, Michael Figueroa, Kinesiology
Energy Expenditure of Obese Men Walking with Body Weight Support

Lynne Orr, College of Education
Engaging Students with Informal Assessments Using Apps

Karan Patel, Toni LaSala, Jordan Cola, Racine Emmons, Michael Figueroa, Jacob Dabon, Kinesiology
Caffeine Supplementation on Anaerobic Power during Sprint Interval Exercise

Erin Quinn, Michael Figueroa, Kinesiology
Cardiac Rehabilitation Case Study

Zachary Robbins, Michael Figueroa, Kinesiology
Effects of Self-Myofascial Release on Anaerobic Power

Priyadharshiny Sandanapitchai, Sumithra Raghavan, Psychology
Exploring Resilience in a Multinational Sample of Trauma Survivors

Reem Shair, Abigail Urena, Karinna Gonzalez, Reem Shair, Andrea Pereda, Public Health
An environmental assessment of tobacco use on WPU campus

College of Education

12:30 to 2:30, UC Student Center 216

Heejung An, Triada Samaras, Simone Sandler, Jennifer Post, Dina Scacchetti, Nancy Norris-Bauer
Effective Arts Integration Approaches in High Needs School Districts

Alex Chambers
Latino Male College Students with Learning Disabilities and Requesting Accommodations

Carrie Eunyong Hong
Deepening Teacher Learning with Video Clubs

Samuel Fancera
School Climate and Academic Performance in New Jersey

Laura Fattal, Sandra Alon, Arielle Testa
Global Education understood through Interdisciplinary Experiential Teaching and Learning

David Fuentes, Melissa Margaritis
Paterson Unearthed: Local PDS Students Cultivate Place-Based Stories About Home

Julie Rosenthal, Elizabeth Brown
The Collaborative Constructivist Approach

Janis Strasser
Big Questions for Young Minds: Extending Children's Thinking

Lisa Warner, Roberta Schorr, Gerald Goldin
Analyzing Prospective Teachers' Motivating Desires During Mathematical Problem Solving

**Authors Reception, David and Lorraine Cheng Library
and
Recognition of Recent Award Recipients, Office of Sponsored
Programs**

Thursday, April 12, Ballroom A, 3:30 to 5:00

Tuesday, April 17

College of Science and Health

11:00 to 12:15, Ballroom A

Beth Davidoff, Communication Disorders

Maternal Language Input to Beginning Communicators with Autism Spectrum Disorder: What Mothers Talk About

Parminder Kaur, Hyun Lim, Prianka Chohan, Dina Moustafa, Chelsea Sweet, Chemistry

Green pathway: Mn-Terpyridine catalyzed dehydrogenative acceptorless coupling of amines and alcohols to give aldimine

Mihaela Jitianu, Chemistry

Anionic clays as Titanium dioxide enhancers. Sol-gel pathway and photocatalysis.

Yalan Xing, Chemistry

Development and Applications of Alkyne Di-functionalization Methodology

Technology Across the Curriculum

11:00 to 12:15, UC 171A&B

Thomas Heinzen, Psychology

Game-Based Assessment

Aleksandar Kecojevic, Cory H. Basch, Charles E. Basch, William Kernan, Public Health

Pre-Exposure Prophylaxis (PrEP) YouTube Videos: A Content Evaluation

Donna Rennar-Potacco, Science Enrichment Center

Factors Influencing Student Adoption of Synchronous Videoconferencing for Online Instruction and Support

Lydia York, Philosophy

Online Roleplaying for Democracy and Ethics: Early Best Practice Indicators

Cotsakos College of Business

11:00 to 1:45, Valley Road Auditorium

James Samuel, Rajiv Kashyap

When the going gets tough, the tweets get going! Sentiment analysis for social media posts and real world implications.

Tao Guo

Impact of Health Insurance Mandate on Household Financial Wellbeing

Stephen Betts, Robert Laud, Andrey Kretinin

Social Entrepreneurship: A Contemporary Approach to Solving Social Problems

Ali Mir, Raza Mir, Sia Nassiripour

(De)Colonizing the Future: Student Debt and Race

Bahar Ashnai, Prabakar Kothandaraman, Ki Hee Kim
An Investigation of Gender and Ethnicity Biases and Stereotypes in Salespeople Performance Evaluation and Recruitment

Francis Cai , Ge Zhang and LianZan Xu
Institutional Trading and Stock Pinning

Sambhu Basu, Kenneth Farrell
Credit Analysis and Management In Middle Market Commercial Banking: Case Studies

Valeriya Avdeev, Hannah Wong
Ethical Issues for a Business Practitioner - Best Practices and Case Studies

Susan Godar, Bela Florental
Nonprofits Meet Millennials: A Conceptual Framework

Mahmoud Watad, Lezlie Dias
A comparative study linking innovation with economic development of three countries: Belgium, Portugal, and Tunisia

College of Science and Health **12:30 to 1:45, Ballroom A**

Venkat Sharma, College of Science and Health
Value of Research in a Regional Comprehensive University as Part of Experiential Learning

Interdisciplinary Presentations #1 **2:00 to 3:15, UC 171 A&B**

Nicholas Hirshon, Communication
We Want Fish Sticks: The Bizarre and Infamous Rebranding of the New York Islanders

Payton MacDonald, Music
Sonic Divide, 10 minute short

Leslie Nobler, Art
Digital Printing: Going Beyond Digital with Art History- – A Focus on the Marginalized

Annamarie Klose Hrubes, David & Lorraine Cheng Library
Introducing WPSphere, William Paterson University's Institutional Digital Repository

College of Science and Health **2:00 to 3:15, Ballroom A**

James Arnone,
Adjacent Gene co-Regulation via Genomic Clustering in Transcriptionally Permissive Loci

Jonathan Foley, Noor Eldabagh, Matt Micek
Resonance Energy Transfer Mediated by Composite Nanostructures

Weihua Liu,
Linear Complexity of Pseudorandom Sequences Generators

Zoe Meleo-Erwin
Patients' perspectives on the role of post-operative support following bariatric surgery: A qualitative analysis

Wednesday, April 18

Interdisciplinary Presentations #2

11:00 to 12:15, UC 171A&B

Megan Conrad, Emily Kim, Katy-Ann Blacker, Zachary Walden, Vanessa LoBue, Psychology
Learning about contagion: Using storybooks to encourage children's behavioral avoidance of illness

Carol Frierson-Campbell, Music
A Place for Musicking in Palestine: Stories from the West Bank and East Jerusalem

Lynne Orr, Alex Chambers, Alex Corsillo, Azaria Cunningham, Dean's Office, College of Education
Investigation of Praxis Core: Test Completion of Teacher Candidates

Keumjae Park, Sociology
Max Weber and East Asian Development

Sonic Divide, a film

12:30 to 2:30, Library Auditorium

Payton MacDonald, Music

Thursday, April 19

Interdisciplinary Presentations #3

11:00 to 12:15, UC 171A&B

David Gilley, Sarafina Cartelli, Lauren Poletti, Biology
How do honey bee colonies respond to components of the waggle-dance pheromone?

Michael Griffiths, Environmental Science
Megadroughts and human migration in Southeast Asia over the past 10,000 years

Martin Williams, Office of Sponsored Programs
The Research Development Strategy for Improving Success in Receiving Grants and Contracts

College of Arts and Communication

12:30 to 1:45, UC 171 A&B

Jennifer Owlett, Kelly Rossetto, Communication
Beyond Blurred Boundaries: Mediated Social Support for Military Partners

Jamsheed Akrami, Communication
Dissident Cinema

Christopher Herbert, Music
Voices in the Pennsylvania Wilderness: An Examination of the Music Manuscripts, Music Theory, Compositions, and (Female) Composers of the Eighteenth-Century Ephrata Cloister

Interdisciplinary Presentations #4

12:30 to 1:45, Student Center 216

John Mayers, Philosophy

When You Come to a Fork in the Road, Take It: How the Folk Concept of Free Will Betrays Commonsense

Priyadharshiny Sandanapitchai, Sumithra Raghavan, Psychology

Exploring Resilience in a Multinational Sample of Trauma Survivors

Glen Sherman, Student Development

Moving from Wellness to Well-Being and the Center of Higher Education

Billy Tsang, Psychology

Arousal during stressful task completion linked to state anxiety in female but not male emerging adults

Office of Sponsored Programs

2:00 to 3:15, UC 171 A&B

Christine Bravo

Updates and Strategies for Submitting Proposals to the National Science Foundation (NSF)

College of Humanities and Social Sciences

2:00 to 3:30, Atrium 126

Kara Rabbitt, College of Humanities & Social Sciences, Moderator

HSS Senior Faculty Research Forum

Rajender Kaur, English

India in the American Imaginary, 1780s-1880s

Pete Mandik, Philosophy

Future Technology and the Frontiers Self-Awareness

Jan Mohlman, Psychology

Mood Swings and the Challenges They Bring

The Office of Sponsored Programs:

Promoting Ideas Into Knowledge

Office of Sponsored Programs

Promoting Ideas Into Knowledge

The Office of Sponsored Programs (OSP) provides assistance and support to William Paterson University faculty and staff who seek external grant or contract support for research, teaching, service, public programs, creative endeavors, conferences and other types of projects from federal, state, and other government sponsors, grantmaking public charities, professional associations, and some commercial sponsors. The OSP concentrates its activities in three areas:

- Proposal development, submission and finalization of contracts (Pre-Award)
- Award set-up, management, and reporting (Post-Award)
- Fulfillment of contract terms and regulatory requirements (Compliance)



Mission and Services

The mission of the Office of Sponsored Programs is to provide value-added assistance to encourage, develop, and support the research, scholarship, education, creative and community service aspirations of William Paterson University's faculty, staff, and students.

The Office of Sponsored Programs accomplishes its mission by:

- Collaborating in the development of projects and leading the submission of proposals to Federal, State, and other government sponsors, grantmaking public charities, professional associations, and some commercial sponsors.
- Securing and initiating awards, supporting stewardship and compliance requirements, and assisting in closing-out individual awards.
- Developing, monitoring and implementing policies to ensure compliance with sponsor expectations and related regulatory requirements.

Benefits of External Support

- ♦ Increases impact of research activities that create new knowledge
- ♦ Encourages artistic activity that creates and shares culture
- ♦ Promotes teacher professional development that enables excellent educational practices
- ♦ Recognizes the contributions of the recipient's research, creative or service activity to their colleagues and the community
- ♦ Supports business development that strengthens the economy
- ♦ Inspires students to reach their goals
- ♦ Engages project leaders in personal and professional growth

If you are interested in seeking external funding to support a new or ongoing project or activity, contact the OSP:

973-720-2852

Christine Bravo

Assistant Director

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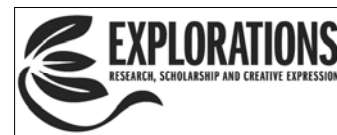
PARTNER PROGRAMS RELATED TO RESEARCH, SCHOLARSHIP AND CREATIVE EXPRESSION AT WP

4th Annual Cyber Security and Big Data Analytics Symposium

UPS Computer Information Technology Lecture Series

Friday, April 6, Valley Road, 9:00 to 3:00

(Pre-registration required)



Elementary Education Earth Day Water Fair

Monday, April 9, Valley Road Cafe, 9:00-1:00

Paterson School 12 Community Garden Clean up and Spring Planting

Thursday, April 12, School 12 Community Garden (intersection of North Second Street and Halpine Street in Paterson), 9:00-1:00

Paterson Metropolitan Region Research Center,

"Paterson Through the Arts"

Friday, April 13, Atrium Auditorium, 10:00 to 5:00

12th Annual Undergraduate Research Symposium

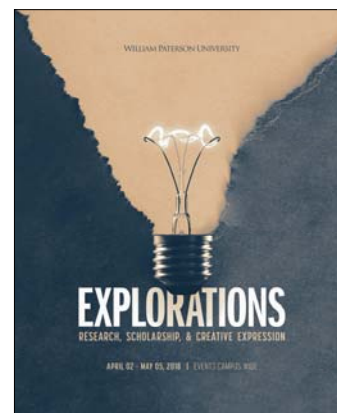
Saturday, April 14, 8:00 to 5:30, UC Ballrooms

(Pre-registration required)

Annual Spring Writer's Conference

Saturday, April 14, UC Multipurpose Room, 9:30 to 3:30

(Pre-registration required)



Mathematics Awareness Week 2018, "Capstone Projects"

Monday, April 23 to Friday, April 27, Science Hall East 3037, 12:30 to 1:45

Wednesday, April 25: Guest Speaker Joseph DeGaetani, *Candy Sharing Games*,
Science Hall East 3027, 12:30 to 1:45

"Global White Supremacy and the Criminalization of Antiracism in France and the United States?" Lecture by Dr. Crystal Fleming

Wednesday, April 25, Cheng Library Auditorium, 12:30

Do you know of a program or activity related to research, scholarship or creative expression that will be happening here at William Paterson University between April 2 and May 5? Activities can include student presentations and recitals, outside speakers, department symposia, and art exhibitions. Call or email the Office of Sponsored Programs at 973-720-2852 or grants@wpunj.edu with the name and date of the program, the URL for detailed information and we will add your program to the schedule on the web and send you the Explorations 3-leaf logo for your flyer or program.