

Faculty Research Day 2018 Outcomes Report



University of Bridgeport
Division of Graduate Studies and Research



Executive Summary

March 23, 2018 marked the eighth Faculty Research Day since its inauguration in 2011. The event has become firmly established as the premier campus venue to showcase the diverse array of faculty and student research and for many of its participants, this event is the first stop before competing in professional conferences throughout the U.S. and around the globe. Over 350 attendees attended this year's event.

This year, we have added the first-ever Undergraduate Student Research Symposium, with 31 undergraduate posters and select afternoon oral presentations mingled with faculty and graduate student talks. For many undergraduates, this is their first experience presenting research outside the classroom.

This year, we have also expanded student participation of area high schools. A total of forty-four students from Shelton High School, Stratford High School, Stamford High School, the Aquaculture Regional Magnet School, Fairchild Wheeler Magnet School's IT School and the Biotech School participated with 18 student posters on display.



Pictured (L-R): Julie Demers, Pre-Award Grants and Research Coordinator, Office of Sponsored Research and Programs, Dr. Ruba Deeb, Director of Biomedical Research Development, with Dr. Tarek Sobh, Senior Vice President for Graduate Studies and Research, Dr. Jessica Nelson, Director of Undergraduate Research, and Dr. Christine Hempowicz, Director, Office of Sponsored Research and Programs and co-Chair, 2018 Faculty Research Day Committee. Not shown is Dr. Joanna Badara, School of Education and co-Chair Faculty Research Day Committee.

The Schelfhaudt Gallery in the Bernhard Arts & Humanities Center was transformed into a scholarly showcase with wall-to-wall posters and additional posters exhibited across the Gallery's center space. A total of 158 research projects were on display representing a diversity of academic disciplines. Faculty had the opportunity to learn about research conducted by colleagues, which sometimes results in new collaborations across departments, schools and colleges. Graduate student poster presenters were visited by 27 faculty judges. And this year, undergraduate and high school student posters presenters were visited by 22 graduate student judges. Both faculty and students had the opportunity speak with interested members of the UB community and guests.

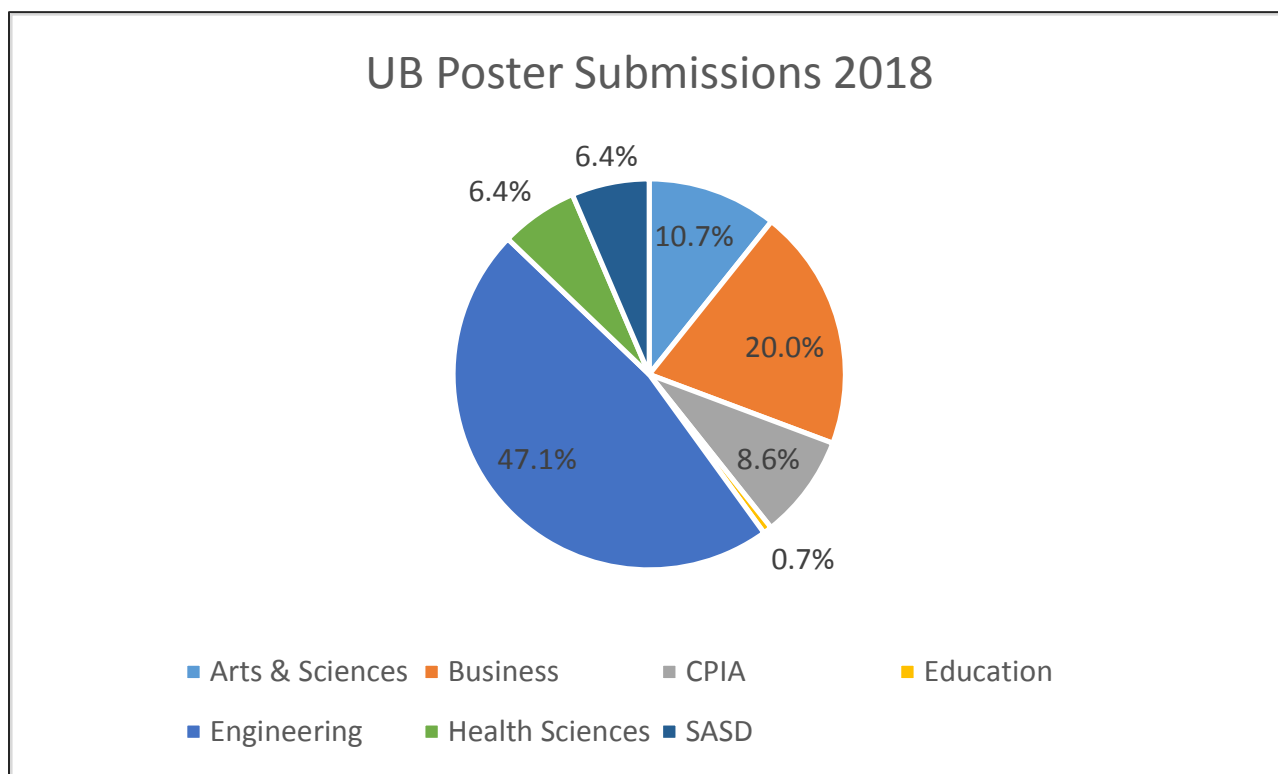
Social media outreach on Facebook, Twitter and Instagram was intensified. Recorded and live video interviews from the morning poster session, keynote speaker and awards ceremony were posted @UBridgeportFRD and #UBFRD.

Poster submissions are accepted in six categories: high school students, undergraduate students, graduate students, doctoral students, faculty competitive, and faculty noncompetitive.

This year's total 140 UB faculty and student posters are sourced as follows: 66 from the School of Engineering, 28 submitted by the Ernest C. Trefz School of Business, 15 from the School of Arts and Sciences, 12 from the College of Public and International Affairs, 9 from the Shintaro Akatsu School of Design, 9 from disciplines within the Division of Health Sciences¹ and 1 from the School of Education.

Percent submissions by school or college for this year's event are presented in Figure 1.

Figure 1. Poster Submissions by Schools and Colleges



¹ 5 posters from the College of Naturopathic Medicine, 2 posters from the School of Nursing, 1 poster each from the Acupuncture Institute and the College of Chiropractic.

Morning Poster Session



Left: Morning poster session in the Schelfhault Art Gallery. *Center (L-R):* Dr. Ruba Deeb, Elizabeth Famodimu and Joe Bango, Technology Management Ph.D. candidates, pose with Dr. Sobh and Dr. Elif Kongar. *Right:* Susie, the first robot presenter, is speaking with attendees.

Faculty Research Day began in the large and small venues within the Schelfhault Art Gallery with 140 posters submitted by UB students and faculty, as well as 18 posters authored by high school students on display. The 10 faculty competitive posters lined the entrance to the gallery. An estimated 350 people attended, including the presenters, to view various research on disciplines ranging from “*Fake News or Marketing Bonanza?*” to “*Design Thinking for Better Community in the City of Bridgeport*” to “*Patient Demographics at an Urban Acupuncture Teaching Clinic*” and “*Pop-up Experiences & Unfolding Housing.*”

Though students from the School of Engineering submitted a collective 66 posters, each student’s research shed light on a different aspect of engineering. Seven students set up a model, prototype, or computer simulation demonstration with their respective posters this year.



Left: Graduate poster presenter Soumil Nitin Shah from the School of Engineering speaks with a student about his research. *Below (L-R):* Undergraduate poster presenters Shreyash Sharma and Mohammed Alyas from the School of Engineering discuss their research with a student.



Keynote Speech

The keynote speech was presented by Bogdan Vernescu, Ph.D., on the topic, “Research in Universities: A Multifaceted Endeavor.” Dr. Vernescu is Vice Provost for Research and Professor of Mathematical Sciences at Worcester Polytechnic Institute. The presentation was both informative and thought-provoking as Dr. Vernescu focused on the role of research in the context of educating students for the 21st century. His talk highlighted the fact that new, ‘disruptive’ technologies are currently creating new problems. In this context, the mission of universities is to train and equip students with both technical and soft skills, so that they are able to approach these problems from a multidisciplinary perspective. He emphasized that research becomes the springboard for training individuals to solve these 21st century problems.

Left: Attendees packed into Littlefield Auditorium. Right: Dr. Vernescu addresses his audience on multifaceted research endeavors.



Oral Presentations: Joint Session

Jonathan Stupple, from the College of Public and International Affairs, presented on, “*Radicalism, Reform and Migration: The Transformations of Shaykh Nimr Baqir al-Nimr.*” As a 2017 UB Summer Scholar, Mr. Stupple assisted Dr. Robert Riggs on this qualitative research project that posits that the late Shaykh Nimr of Saudi Arabia represented the nexus of regional political competitions, transnational religious knowledge networks, inter-generational tensions in contemporary Shi‘ism, and radical post-revolutionary Shi‘i politics. Nimr underwent a complex process of sectarian identity formation, which played a significant role in a widening gap between himself, his Sunni compatriots, and even different constituencies within the Shi‘i community in Saudi’s Eastern Province, and holds relevance as a corrective to monolithic historiographies of the Saudi Shi‘a as a united community.

Nicolas Cardenas Portaccio, from the Department of Electrical Engineering, presented on, “*University of Bridgeport’s Engineering Grand Challenges Scholars Program (GCSP).*” As a junior and a member of the first cohort of GCSP, Mr. Portaccio discussed the facets of UB’s program as it relates research, entrepreneurship, social consciousness, multidisciplinary curriculum; its expansion to include freshmen and sophomores; and its impact on undergraduate research.

Drs. Khaled Elleithy and Abhilasha Tibrewal from the Department of Engineering & Computer Science and Dr. Jani Pallis from the Department of Mechanical Engineering respectively serve as Director and Co-Directors of GCSP.

Feissal Djoule and Emily Juliano, from the Department of Biology, co-presented on the, “*Effect of Microgravity on Nanoparticle-Cellular Interaction.*” Advised by Dr. Isaac Macwan, from the Department of Biomedical Engineering, Mr. Djoule and Ms. Juliano designed the winning experiment that will fly into space compliments of the Student Spaceflight Experiments Program. The experiment proposes whether Maleimide – functionalized Graphene quantum dots will have a stable binding to cellular proteins on Chinese Hamster Ovary cells under the influence of microgravity. If this occurs, it can provide a wide variety of applications for studying the effects of micro gravity on a physiological system through the behavior of proteins.



Pictured (L-R): Dr. Ruba Deeb, Dr. Robert Riggs, Johnathan Stupple, Nicolas Cardenas Portaccio, Dr. Jessica Nelson, Feissal Djoule, Emily Juliano and Dr. Isaac Macwan.

Graduate student, Reem Alattas, from the Department of Engineering and Computer Science, presented on, “*Modular Robotic Systems.*” These robotic systems consist of multiple modules that aim to create versatile, robust, and low cost systems. Ms. Alattas shared how modular robotic systems designers face challenges especially when the robot’s task is not fully understood or when the task has to be accomplished in an unstructured environment. To address this, Ms. Alattas applied evolutionary algorithms to automate the design process.



The following faculty presented their research outcomes from externally funded research projects:



Left: Dr. Anthony Lisi, College of Chiropractic. *Center:* Dr. Nancy DeJarnette, School of Education. Dr. Ryan McCulloch, School of Arts and Sciences is not shown. *Right:* Dr. Jani Pallis, Department of Mechanical Engineering.

Dr. Anthony Lisi, College of Chiropractic, presented on, “*The Effect of Pulsed Electromagnetic Field Therapy on Patients with Low Back Pain.*” With funding from Aerotel, Dr. Lisi conducted a pilot randomized controlled trial, involving 44 participants over 12-weeks, to assess the effect of a portable pulsed electromagnetic field device compared with a sham device in patients with lower back pain. He presented the preliminary results and discussed the considerations for conducting pragmatic clinic trials in a teaching institution.

Dr. Nancy DeJarnette, School of Education, and Dr. Ryan McCulloch, School of Arts and Sciences, presented on the, “*Impact of Professional Development Regarding Next Generation Science Standards (NGSS) and Engineering Design on K-12 Science Teachers’ Self-Efficacy.*” With funding from the CT Space Grant Initiative, they conducted a mixed methods study of teachers’ training experience in Bridgeport and Hartford over the summer. Their findings showed a significant increase in teachers’ dispositions and self-efficacy based on the planning instruction workshops that incorporated NGSS and engineering education.

Dr. Jani Pallis, Department of Mechanical Engineering, presented on, “*Establishing a Student Space Program: Strategy, Infrastructure and Funding.*” With funding from the CT Space Grant Initiative, Dr. Pallis provided highlights of UB’s Student Aerospace and Extreme Environment Program and its various faculty and student projects – from high altitude ballooning and robotics to satellite monitoring ground station. By working with other faculty to secure a series of small grants, Dr. Pallis has created an engineering research and project based infrastructure that validates UB’s capabilities and positions UB well for applying for larger grants.

Social Media Impact

For 2018, the total impressions (4,513 on Facebook, 3,367 on Twitter, 2,408 on Instagram) for just that day was 10,288 impressions. This figure represents the broadest possible metric for any piece of owned media's performance. There were 15 recorded videos of students, faculty, Dr. Vernescu and Dr. Sobh posted on social media. The total video views were 3,354 (2,027 on Facebook, 910 on Twitter, 417 on Instagram).

Compared to last year, post engagement activities - public shares, likes and comments - showed a 50% increase (2017=933/2018= 1400).

Awards Ceremony

The day ended in the Schelfhaudt Gallery with the awards ceremony and a reception of cheese and wine. Dr. Tarek Sobh, Senior Vice President for the Division of Graduate Studies & Research and the Dean of the School of Engineering thanked everyone for their commitment to research on campus before announcing the awards. In the high school, undergraduate, graduate, and doctoral categories, first, second, and third place were awarded as well as honorable mentions. For only the high school and undergraduate categories there was a People's Choice award. The faculty competitive category had four unranked awards.

In addition to these awards, Dr. Sobh also recognized undergraduate students who participated in the national Student Spaceflight Experiments Program (SSEP). This initiative provides participating academic institutions the opportunity to design and propose real experiments to fly in low Earth orbit, first aboard the Space Shuttle, and then on the International Space Station. Three finalist experiment proposals were selected through a rigorous competition at UB and the SSEP program committee selected the winning experiment. Dr. Sobh recognized the three finalist teams and their mentors.

Dr. Ruba Deeb, Director of Biomedical Research Development, Dr. Jani Pallis, Professor of Mechanical Engineering, & Dr. Nancy DeJarnette, Director of Elementary Education, and Dr. Jessica Nelson, Director of Undergraduate Research respectively served as Director/Principal Investigator, Co-Directors, and Program Manager of SSEP.

Awardees: High School Students



Top Left: Dr. Sobh and Mary Clark, Shelton High School Science Teacher, accepting award for 1st Place awardee, Joe Davis. *Top Center:* Dr. Sobh with 2nd Place awardee Kyle Young. *Top Right:* Dr. Sobh with 3rd Place awardee Deloshene Sittambalam. *Bottom Left (L-R):* Honorable Mention awardees Matthew Dattolo, Patrick Zaleski, John Bolognino, Dr. Sobh, Susan Dougherty (Team Mentor), Alejandro Ross and Grihith Manchanda from Stamford High School. *Bottom Right (L-R):* People's Choice awardees, Imtiaz Uddin, Kristen Amon (Teacher), Dr. Sobh, , Susan Dougherty (Team Mentor), Augustus Doricko, Vedant Gannu, Jordan Ordonez, James Pease from Stamford High School.

Faculty Research Day 2018: High School Poster Winners			
	Name	Poster Title	School
1 st Place	Joe Davis	The Effect of Trifolium Repens and Asparagus Setaceus on Alaria Petiolate	Shelton High School
2 nd Place	Kyle Young	Fire Hydrant Alert System	Shelton High School
3 rd Place	Deloshene Sittambalam	The Effect of Grapefruit Seed Extract (GSE) on Bacterial Growth	Shelton High School
Honorable Mention	John Bolognino, Matthew Dattolo, Grihith Manchanda, Alejandro Ross, Patrick Zaleski	Cultivation of Yeast in Microgravity	Stamford High School
People's Choice	Augustus Doricko, Vedant Gannu, Jordan Ordonez, James Pease, Imtiaz Uddin	The Efficacy of Acetazolamide on Carbonic Anhydrase in Microgravity	Stamford High School

Awardees: Student Spaceflight Experiments Program Students



Left (L-R): Finalist Experiment awardees Trinadh Venna, Chadwick Jolly, Dr. Jani Pallis, Dr. Sobh, Aaron Knight, and William Figueroa. *Center (L-R):* Finalist Experiment awardees Ameya Patkar, Dr. Sobh, Dr. Stergios Bibis, and Juan Victor Cabrera. Not shown is Eshawn Hoffler. *Right (L-R):* Winning Experiment awardees Emily Juliano, Dr. Sobh, Dr. Isaac Macwan and Feissal Djoule.

Faculty Research Day 2018: Student Spaceflight Experiments Program			
	Name	Advisor	Poster Title
Winning Experiment	Emily Juliano Feissal Djoule	Isaac Macwan	The Effects of Microgravity on Nanoparticle-Cellular Interaction
Finalist	Zackary Aziz, William Figueroa, Chadwick Jolly, Aaron Knight	Dr. Jani Pallis Trinadh Venna	Microgreen Growing in Microgravity versus Earth
Finalist	Juan Victor Cabrera, Eshawn Hoffler, Ameya Patkar	Stergios Bibis	Microgravity's Effect on the Virulence of Bacteriophage qB on Escherichia coli as a Possible Indicator of the Down-Regulation of Host Factor Hfq

Awardees: Undergraduate Students



Top Left (L-R): Dr. Sobh with 1st Place awardees, Emily Julianano and Feissal Djoule, and poster advisor Dr. Isaac Macwan. *Top Center (L-R):* Dr. Sobh with 2nd Place awardees, Ameya Patkar and Victor Cabrera, and poster advisor Dr. Stergios Bibis. *Top Right (L-R):* Dr. Sobh with Honorable Mention awardee, Kayley Chapeton, and poster advisor Dr. Isaac Macwan. *Bottom Center (L-R):* People's Choice awardee, Shreyash Sharma, Dr. Sobh and Mohammed Alyas. Poster advisor Dr. Xingguo Xiong is not shown. *Not Pictured:* 3rd Place awardee, Taylor Brown and poster advisor Dr. Kathleen Englemann.

Faculty Research Day 2018: Undergraduate Student Poster Winners				
	Name	Advisor	Poster Title	School/College
1 st Place	Emily Julianano	Isaac Macwan	Effect of Microgravity on Nanoparticle- Cellular Interaction	School of Arts and Sciences
2 nd Place	Ameya Patkar	Stergios Bibis	Microgravity's Effect on the Virulence of Bacteriophage qB on Escherichia coli as a Possible Indicator of the Down-Regulation of Host Factor Hfq	School of Arts and Sciences
3 rd Place	Taylor Brown	Kathleen Englemann	The Effects of Menthol Concentrations on Germination Rates of Arabidopsis thaliana	School of Arts and Sciences
Honorable Mention	Kayley Chapeton	Isaac Macwan	The Analysis and Application of the Emergent Electronic Properties of Self-Assembling Nucleopeptide Systems	School of Engineering
People's Choice	Mohammed Alyas	Xingguo Xiong	Low-cost Arduino – Based Ultrasonic Radar System	School of Engineering

Awardees: Graduate Students



Top Left (L-R): Dr. Sobh with 1st Place awardee, Ruchi Parag Shah, and Dr. Llyod Gibson, Dean of Ernest C. Trefz School of Business. Poster advisor Dr. Philip Maymin is not shown. *Top Center (L-R):* Dr. Sobh with 2nd Place awardee, Mohamed Mohamed. Poster advisor Dr. Khaled Elleithy is not shown. *Top Right (L-R):* Dr. Sobh with 3rd Place awardee, Jake Dengelegi, and poster advisor Dr. Isaac Macwan. *Bottom Center (L-R):* Dr. Sobh with Honorable Mention awardee, Joseph Guarneri, and poster advisor Dr. David Oberleitner.

Not Pictured: Honorable Mention awardee, Devon Leighton and poster advisor Dr. Prabir Patra.

Faculty Research Day 2018: Graduate Student Poster Winners				
	Name	Advisor	Poster Title	School/College
1 st Place	Ruchi Parag Shah	Philip Maymin	This Riddle Will Show You If You Are Gender Bias	School of Business
2 nd Place	Mohamed Mohamed	Khaled Elleithy	Electrical Vehicle Battery CHANGE System (EVBCS)	School of Engineering
3 rd Place	Jake Dengelegi	Isaac Macwan	Multi-Walled Carbon Nanotube & Polypyrrole Nanocomposite and its Interactions with AMB-1 Bacteria	School of Engineering
Honorable Mention	Joseph Guarneri	David Oberleitner	The Impact of Body Image Preoccupation on College Adjustment	School of Arts and Sciences
Honorable Mention	Devon Leighton	Prabir Patra	Fabrication of Flexible, Conductive Polypyrrole-Graphene Quantum Dot (PPy-GQD) Nanocomposite Via Electrodeposition on Carbon Fiber Mesh	School of Engineering

Awardees: Doctoral Students



Left (L-R): Dr. Sobh with 2nd Place awardee, Emily Scholl, and poster advisor Dr. Kevin Kelliher.
Right (L-R): Dr. Sobh with Honorable Mention awardee, Felipe Zapata Roldan, and poster advisor Dr. Nasir Sheikh.
Not Pictured: 1st Place awardee, Wafa Elmannai, and 3rd Place awardee, Susrutha Babu Sukhavasi, with poster advisor Dr. Khaled Elleithy.

Faculty Research Day 2018: Doctoral Student Poster Winners				
	Name	Advisor	Poster Title	School/College
1 st Place	Wafa Elmannai	Khaled Elleithy	Computer Vision-Based Framework for Supporting the Mobility of the Visually Impaired	School of Engineering
2 nd Place	Emily Scholl	Kevin Kelliher	Accessory Piriformis Muscle	College of Chiropractic
3 rd Place	Susrutha Babu Sukhavasi	Khaled Elleithy	Power Analysis and Conditional Expectation of CMOS Sensors	School of Engineering
Honorable Mention	Felipe Zapata Roldan	Nasir Sheikh	A Modeling Framework for Design Management	School of Engineering

Awardees: Faculty Competitive



In the Faculty Competitive category, winners earned an unranked award. Recipients are listed alphabetically by last name.

Left: School of Engineering faculty member Dr. Isaac Macwan accepts his award from Dr. Sobh. Center: School of Arts and Sciences faculty member Amy Nawrocki, accepts her award from Dr. Sobh. Right: School of Engineering faculty member Dr. Nasir Sheikh accepts his award from Dr. Sobh. Not Pictured: Dr. Mohammed Al-Azdee, from the College of Public and International Affairs and the fourth faculty competitive poster awardee.

Faculty Research Day 2018: Faculty Competitive Posters		
Name	Poster Title	School/College
Mohammed Al-Azdee	Mediated Policy Effects of Foreign Governments on Iraqi Independent Media During Elections	College of Public and International Affairs
Isaac Macwan	Bacteria as Bio-Template for 3D Carbon Nanotube Architectures	School of Engineering
Amy Nawrocki	A Memoir of No Memory: Rethinking Self Analysis and Navigating Medical Narratives	School of Arts and Sciences
Nasir Sheikh	Dissent and Games in Decision Making: Case of Solar Technologies	School of Engineering

FACULTY RESEARCH DAY 2018

POSTER LIST

NOTE: All Faculty Research Day 2018 posters will be posted by May 1st to the University of Bridgeport's institutional repository **UB ScholarWorks** at <https://goo.gl/N8xAtL>.

Faculty Competitive Posters

Poster Number	Name (First)	Name (Last)	Status	UB College/School	Poster Title
1	Mohammed	Al-Azdee	FC	College of Public and International Affairs	Mediated Policy Effects of Foreign Governments on Iraqi Independent Media During Elections
2	Mohamed	Ben Haj Frej	FC	School of Engineering	Light-weight Accountable Privacy Preserving (LAPP) Protocol Allowing to Audit the Third-Party Auditor in the Cloud Environment
3	Timothy	Dorr	FC	School of Business	Classroom Engagement: Encouraging Attention Vs Punishing Distraction
4	Joanne	Guo	FC	School of Business	How Should China Set Its Monetary Policy
5	Stephane	Kirven	FC	College of Public and International Affairs	Restorative Justice: Isolation to Empowerment in the Campus Rape Adjudication Process
6	Eric	Lehman	FC	School of Arts and Sciences	Voice of the Moment: Henry Miller's Paris Notebooks and the Problem of Autobiographical Fiction
7	Isaac George	Macwan	FC	School of Engineering	Bacteria as Bio-Template for 3D Carbon Nanotube Architectures
8	Philip	Maymin	FC	School of Business	Does Big Government Cause Poverty?
9	Amy	Nawrocki	FC	School of Arts and Sciences	A Memoir of No Memory: Rethinking Self Analysis and Navigating Medical Narratives
10	Nasir	Sheikh	FC	School of Engineering	Dissent and Games in Decision Making: Case of Solar Technologies

GRADUATE STUDENT AND FACULTY NON-COMPETITIVE POSTERS

School of Arts and Sciences

Poster Number	Name (First)	Name (Last)	Status	Poster Title
120	Brianna	Garcia	G	Mindfulness Meditation and Child Birth
11	Joseph	Guarneri	G	The Impact of Body Image Preoccupation on College Adjustment
12	David W.	Kraft	FNC	Van der Waals Correction to Nuclear Fusion by Mechanical Adiabatic Compression
13	Diane	Krumrey	FNC	The Power of Desire in American Self-imagining, or, Thomas Jefferson's Lost Trunk

Ernest C. Trefz School of Business

Poster Number	Name (First)	Name (Last)	Status	Poster Title
14	Asem	Al Saied Suliman	G	The Relationship Between Mobile In-App Advertising and Consumer Behavior: An Applied Study of Students Enrolled in Ernest C. Trefz School of Business at the University of Bridgeport
15	Baatarjav	Dashtseren	G	Bitcoin Investment
16	Tanuj	Gupta	G	Prospect Theory & Gain Aversion: How People Make Decisions
17	Roudabeh	Jamshid Eini	G	The Relationship between the Dubai-Oman Crude Oil and Oman Stock Market Prices and Political Instability in the Middle East
18	Xiaoyan	Ma	G	Anchoring Bias and Price Strategy
19	Fahad	Mahbub	G	Standard Analytics Process- A Step by Step Approach
20	Michelle	Morris	G	Sarbanes Oxley: Is There a Quantifiable Difference?
21	Yasmine	Moslih	G	Learning from the Secret behind our Failure to Predict Feelings
22	Evelin	Perez Maldonado	G	How Will American Households Respond to the New Tax Reform?
23	Konstantin	Prokhorov	G	Market Research of the Analytics Tools
24	Rajeev	Rathore	G	Comparison and Analysis of Project Management Tools
25	Fnu	Robin	G	Trade Liberalization, Poverty, Income Inequality in India
26	Reda	Salah Bennani	G	The Impact of Behavioral Biases on the Process of Decision-Making
134	Ruchi Parag	Shah	G	This Riddle Will Show You If You Are Gender Bias

Poster Number	Name (First)	Name (Last)	Status	Poster Title
27	Shreyas	Sthapit	G	Gambler's Fallacy: A Gambler's Dilemma
28	Jufang	Yan	G	The impact of Financial Reform in China
29	Qingying	Ye	G	How Trump's Infrastructure Investment will Affect Real Estate?
30	Boutaina	Zaghrat	G	The impact of framing effect on decision-making
31	Gew-Rae	Kim	FNC	Trade War: GDP vs GNP, Developing vs Developed countries
32	Marc	Lewis	FNC	How Does an Employee's Attitude Toward Savings Affect Their Participation in Qualified Retirement Plans?
33	Edward	Lisi	FNC	Fake News or Marketing Bonanza? Exploring Non-Traditional "Holidays" as Sales Stimuli
34	Michael	Lohle	FNC	The Endurance Test: A Virtual Project Team's Lived Experience in an Online Project Management Course
35	Nikki	Wingate	FNC	Developing the Elderly Tourism Market in China
36	Congsheng	Wu	FNC	Tariffs, Economic Growth and Income Distribution

College of Public and International Affairs

Poster Number	Name (First)	Name (Last)	Status	Poster Title
37	Ashley	Moser	G	A Look at Education Through the Eyes of the World's Children
38	Brianna	Stefano	G	Classifying Hypersexuality as Deviant Behavior
39	Mohammed	Al-Azdee	FNC	Winter Olympic Games in South Korea: Media Coverage of NoKo and Public Opinion in the PRC and USA in 2018
40	Rebecca	Bruckenstein	FNC	Resolution in Process: Innovative Peacebuilding Techniques as a Form of Conflict Transformation
41	Robert	Riggs	FNC	Radicalism, Reform and Migration: The Transformations of Shaykh Nimr Baqir al-Nimr
42	Peter	van Geldern	FNC	Pop-up Experiences & Unfolding Housing

School of Education

Poster Number	Name (First)	Name (Last)	Status	Poster Title
43	Nancy	DeJarnette	FNC	Elementary STEAM Project: Helping Teachers implement in the K-8 classroom

School of Engineering

Poster Number	Name (First)	Name (Last)	Status	Poster Title
44	Omar	Abdullh	G	Investigation of Transient Recovery Voltage on Circuit Breaker
45	Modinat	Adaranijo	G	The Effect of Steviol and Hyperthermia on Murine Mammary Adenocarcinoma Cells
46	Bidemi	Awogbemi	G	Simulation of Transient Over-voltage from Energization of Unloaded Transmission Line
47	Abimbola	Ayoola	G	Size Dependent Graphene Quantum Dot (GQD) Interactions with Protein Biomarkers
48	Pritesh	Bhavsar	G	MQTT and ROC Based Hybrid Robot as a Service (RaaS) Platform
49	Karan Manoj	Bhosale	G	Energy Optimization in residential spaces using BEopt
50	Ishita	Choudhury	G	Separation and Characterization of Cells with Varying Magnetic Nanoparticle Concentration
51	Franklin	Daniel	G	Smart Point-of-Sale Automation
117	Debika	Debnath	G	Differentiation of Mesenchymal Stem Cells (MSCs) to Functional Neuron on Graphene-Polycaprolactone Nanoscaffolds
52	Jake	Dengelegi	G	Multi-Walled Carbon Nanotube & Polypyrrole Nanocomposite and its Interactions with AMB-1 Bacteria
53	Heena Rajesh	Divecha	G	Role of Surface Proteins in Magnetotaxis-based Applications
54	Abul Hasan	Fazulullah	G	HASS Cloud Dynamics
55	Anita	George	G	Internet of Things in Health Care Using FOG Computing
56	Pegi	Haliti	G	A computational approach using Cellular Potts Model for simulation of neural stem cells grown in PCL-Graphene scaffolds
57	Kavya Chandrika	Hemmanur	G	Graphene Patterned Microchip For Colorectal Cancer Detection
58	Chidi	Igweh	G	Evaluation Of Cytotoxic Effect of Graphene Quantum dots
59	Kshitij	Kolhatkar	G	Radiosensitization with Magnetic Nanoparticles
60	Marla	Kratzer	G	Understanding the Molecular and Structural Selectivity of Oxidant-induced Nitration and its Reversal in Sarcoplasmic Reticulum Ca ²⁺ -ATPase SERCA2a vs. SERCA1a
61	Devon	Leighton	G	Fabrication of flexible, conductive polypyrrole-graphene quantum dot (PPy-GQD) nanocomposite via electrodeposition on carbon fiber mesh

Poster Number	Name (First)	Name (Last)	Status	Poster Title
62	Xiaoliang	Li	G	Silicon Membrane Thickness Monitoring System based on Optical Sensing system
63	Ankit	Mehta	G	Reverse Logistics: Mattress Recycling
64	Mohamed	Mohamed	G	Electrical Vehicle Battery CHANGE System (EVBCS)
130	Mahmoud	Morshedy	G	Impact Of Disruptive Technologies On The Business Ecosystem –Network Virtualization As A Case Study
65	Venkata	Namburi	G	An Improved Novel Key Management Protocol for RFID Systems
66	Jesse	Newman	G	Molecular Dynamic Simulations of CRISPR and HIV
67	Romaben	Patel	G	A BIOENGINEERED MEMORY STORAGE DEVICE USING BACTERIORHODOPSIN AND GRAPHENE
68	Antonio	Pereira Tavares	G	3D Printed Hyaluronic Acid Hydrogels using free form fabrication for tissue engineering application
69	Viyaleta	Peterson	G	Theoretical Approach in Reducing Total Network Power Consumption by Utilizing 5G Technologies
70	Vivek Anant	Raut	G	Analyzing the Implementation of Six Stroke I.C. Engine with Optimal Design of Camshaft
71	Soumil Nitin	Shah	G	Balluino: High Altitude IOT Based Real Time Air Quality Management system using Balloon/Drone
72	Xiaoxiao	Sheng	G	Design and Simulation of a BioMEMS Leukocyte Counter with Concurrent Processing
73	Shiva	Sundaram	G	Total Solar Eclipse
74	Qi	Wu	G	Length Dependent Interactions of Carbon Nanotubes and Surfactant Protein B
75	Tong	Zuo	G	Fabrication of Concussion Resistant Nanocomposites
76	Razan	Abdulhammed	D	Machine Learning Approaches for Flow-Based Intrusion Detection Systems
77	Majid	Alshammari	D	Energy-Efficient Hybrid key Distribution Scheme for Wireless Sensor Networks
78	Remah	Alshinina	D	A Highly Accurate Machine Learning Approach for Developing Wireless Sensor Network Middleware
79	Rania	Baashirah	D	Security Implementation Using Present-Puffin Protocol
80	Ellen	Belitzky	D	Decision Making in Technology Management – Can Knowledge Management Systems Enable Pediatric Oncology Caregiving Effectiveness?
81	Gazi	Duman	D	A Decision Support System for Performance Evaluation: A Combined D-ANP & ANN Approach
82	Wafa	Elmannai	D	Computer Vision-Based Framework for Supporting the Mobility of the Visually Impaired
83	Eugene	Gerety	D	High Accuracy "Blind" Decoding of Extreme-Density Matrix Barcode Bit Fields

Poster Number	Name (First)	Name (Last)	Status	Poster Title
84	Zakareya	Lasefr	D	Enhanced Epilepsy Seizure Detection and Smart Phone APP for Monitoring Seizures Based on EEG Classification
85	Susrutha Babu	Sukhavasi	D	Power analysis and Conditional Expectation of CMOS Sensors
86	Dan	Tenney	D	Use of SWOT/TOWS Technique to Strategically Improve a SME Business
87	Ozden	Tozanli	D	Saving Connecticut One Mattress at a Time: A Real-Life Case Study to Improve Mattress Recycling Process at Park City Green
88a	Felipe	Zapata Roldan	D	A Modeling Framework for Design Management
88b	Jasem	Almotiri	D	A Multiple Retinal Normal and Abnormal Anatomical Structures Segmentation Using Hybrid Morphological and Fuzzy Local Adaptive Thresholding
89	Zheng	Li	FNC	Design and Development of A New Biomedical Instrument
90	Muhammad	Wasim Ud Din	FNC	BRanching Artificial Neural Ensemble (BRANE) Algorithm for Supervised Learning
91	Ahmed	El Sayed	FNC	Super Resolution and 3D Alignment Effects on Unsupervised Face Recognition in The Wild
92	Xingguo	Xiong	FNC	Balloon/Drone-based Arial Platforms for Remote Particulate Matter Pollutant Monitoring
93	Linfeng	Zhang	FNC	The utilization of fuel cell waste heat at the University of Bridgeport

School of Nursing

Poster Number	Name (First)	Name (Last)	Status	Poster Title
94	Christine	Booth	FNC	Enhancing Nurse Residency Programs with High Quality Simulation and Debriefing
95	Vivienne	Friday	FNC	Reciprocal Mentoring: An Innovative Clinical Exercise

Acupuncture Institute

Poster Number	Name (First)	Name (Last)	Status	Poster Title
96	Peter	Tournas	G	Patient Demographics at an Urban Acupuncture Teaching Clinic

College of Naturopathic Medicine

Poster Number	Name (First)	Name (Last)	Status	Poster Title
97	Lauren	Hawkins	D	A Model for Optimal Prevention: Naturopathic Community Healthcare
98	Hannibal	Miles	D	Breakfast may not be the most important meal of the day: The Benefits of Intermittent Fasting on Health, Exercise, and Muscle Growth
99	Kali	Olsen	D	Marinades Matter: Inhibiting the Formation of Carcinogenic Heterocyclic Aromatic Amines in Foods Through Smarter Cooking Methods
100	Radley	Ramdhan	D	Understanding and Treating Posttraumatic Stress Disorder Using the Six Principles of Naturopathic Medicine
101	Kimberly	Sanders	FNC	Demographic and Outcome Trends in a Naturopathic Teaching Clinic

College of Chiropractic

Poster Number	Name (First)	Name (Last)	Status	Poster Title
102	Emily	Scholl	D	Accessory Piriformis Muscle

Shintaro Akatsu School of Design

Poster Number	Name (First)	Name (Last)	Status	Poster Title
103	Yanjinkham	Munkhbat	G	Design Thinking for Better Community in the City of Bridgeport
104	Emmanuel	Noi	G	Building Places of Value

UNDERGRADUATE RESEARCH SYMPOSIUM POSTERS

Poster Number	Name (First)	Name (Last)	UB College/ School	Poster Title
105	Mustafa	Al-Azdee	School of Engineering	Programmable Logic Controller Learning With EasyVeep
106	Mohammed	Alyas	School of Engineering	Low-cost Arduino-Based Ultrasonic Radar System
107	Gukyoung	An	School of Engineering	Access Analysis of GEO, MEO & LEO Satellite Systems
108	Maria	Besselink	School of Arts and Sciences	Psychological Effects of ACL Injuries on an Athlete's Return to Sport
109	Taylor	Brown	School of Arts and Sciences	The Effects of Menthol Concentrations on Germination Rates of Arabidopsis thaliana
110	Juan Victor	Cabrera	School of Arts and Sciences	Cloning of Putative Cobalamin Reductases of Thermosipho melanesiensis
111	Kaley	Chapeton	School of Engineering	The Analysis and Application of the Emergent Electronic Properties of Self-Assembling Nucleopeptide Systems
112	Kathryn	Chevalier	Shintaro Akatsu School of Design	Bringing Bridgeport Back One Building at a Time
113	Yahaira	Collazo	School of Arts and Sciences	Workplace Stress: Implications for Employees and Organizations
114	Brett	Cousins	School of Arts and Sciences	Reenvisioning Clifford in The House of the Seven Gables
115	Jenny	Cox	College of Public and International Affairs	Queer Webcomics: LGBTQ Representation in the Digital Age
116	Issa	Dababneh	School of Arts and Sciences	Golden Penney Ante
118	Tais	Degouvea	Shintaro Akatsu School of Design	Tend
119	William	Figueroa	School of Engineering	Microgreen Growth In Microgravity Versus Earth
120	Brianna	Garcia	School of Arts and Sciences	Mindfulness Meditation and Child Birth
121	Raman	Ghafari	Shintaro Akatsu School of Design	Using RFID Technology to make the Crosswalks Safer
122	Samuel	Jacobson	Select One	An Exciting Speaker
123	XiaofangJia	Jia	School of Business	Mere Exposure Effect and Its Application in Business
124	Emily	Juliano	School of Arts and Sciences	Effect of Microgravity on Nanoparticle-Cellular Interaction

Poster Number	Name (First)	Name (Last)	UB College/ School	Poster Title
125	Craig	Leachman	Shintaro Akatsu School of Design	Portraiture Mobile App: The Educational Guide for Portraits
126	Isabella Theberge	Lesko	Shintaro Akatsu School of Design	Cruelty-Free Design
127	Nicolas	Mancheno	Shintaro Akatsu School of Design	An Eco-Friendly Lifestyle in your Hands
128	Daniel	Mizutani	School of Engineering	Banana Peel Decomposition in Microgravity
129	Marie-Claire	Montoro Bertolotti	College of Public and International Affairs	Media and Crime in Mexico
131	Phuong	Nguyen	School of Engineering	Growth of Fish Embryo in Microgravity
132	Ameya	Patkar	School of Arts and Sciences	Microgravity's Effect on the Virulence of Bacteriophage qB on Escherichia coli as a Possible Indicator of the Down-Regulation of Host Factor Hfq
133	Diya	Peng	School of Engineering	Visualization and Analysis of Air Pollution in US East Coast Cities
135	Lilianna	Shapiro	School of Arts and Sciences	Alexithymia and Emotional Ambivalence as Predictors of College Adjustment
136	Carly	Sherlock	College of Public and International Affairs	Mindfulness Based Relapse Prevention
137	Cheyene	Twining	College of Public and International Affairs	Political Filter Bubbles on Twitter
138	Valibhav	Waste	School of Engineering	Servo Motor Control Using Variable Frequency Drive
139	Zhaopeng	Xu	School of Engineering	Simulation of PM2.5 Particulate Matter Pollution in US East Coast Using SMAT-CE Software

AREA HIGH SCHOOL SELECTED POSTERS

Poster Number	High School Participant	Poster Title
Shelton High School		
140	Joe Davis	The Effect of <i>Trifolium repens</i> and <i>Asparagus setaceus</i> on <i>Allaria petiolate</i>
141	Deloshene Sittambalam	The Effect of Grapefruit Seed Extract (GSE) on Bacterial Growth
142	Kyle Young	Fire Hydrant Alert System
Stratford High School		
143	Tyler Bailey, Matthew Barrios, Emily Goddard, Tyler Heffern, John Reed, Clarissa Rotonto, Emmanuel Sainville, Scott Seperak, Keenan Yu	Revitalizing Steelpoint Harbor – A Redevelopment Plan
Stamford High School		
144	John Bolognino, Matthew Dattolo, Grihith Manchanda, Alejandro Ross, Patrick Zaleski	Cultivation of Yeast in Microgravity
145	Augustus Doricko, Vedant Gannu, Jordan Ordonez, James Pease, Imtiaz Uddin	The Efficacy of Acetazolamide on Carbonic Anhydrase in Microgravity
146	Ryan Hoak, Lalith Goli, Adarsh Sushanth	The Effects of Microgravity on Genetic Variation of <i>Sordaria Fimicola</i>
Notre Dame High School		
147	Ariel Esprit	Effects of a Point Mutation on Chromosome 11p15.5
148	Austin Hu	The Effects of Environmental Factors on DNA Mutations
149	Ashley Zupo	What is Phylketonuria?

Poster Number	High School Participant	Poster Title
The Aquaculture Regional Magnet School		
150	Jinkuk Hong	Investigation of Recycled Concrete Aggregate as a Carbon Dioxide Sequestration Vehicle Through Indirect Mineral Carbonation
151	Clayton McGoldrick	Development of a Migration Model for <i>Monrhone saxatilis</i> Based on Thermal Shifts in Long Island Sound
152	Evan O’Keefe	Amplifying Heat Shock Protein Expression in <i>Glycine max</i> for Cross Protection against Substandard Growing Conditions
Fairchild Wheeler Magnet School – The IT School		
153	Maya Barahona, Darius Washington	Drunk Lock
154	Jada Worthy, Sabrina Escalona-Ortiz, Jasmine Bullen, Lohana Andrade	Solace
Fairchild Wheeler Magnet School – The Biotech School		
155	Denness Serrata, Alexia Bell	Comparing Pesticide Residues in Organic and Non-Organic Fruits and Vegetables
156	Olivia Wallon, C. Crudale, K. DeCloux, K. Veillette	Echinacea’s Effect on Stress Induced Immunodeficiency in Crickets
157	Mariam Dobosz	Comparing Biofilm Formation on Naturally Occurring Antimicrobial Nanostructures from <i>Squalus Acanthias</i> , <i>Cicadidae sp.</i> , and <i>Nelumbo nucifera</i>

Key:

FC Faculty Competitive
FNC Faculty Non-Competitive
UG Undergraduate Student
G Graduate Student
D Doctoral Student