

23rd Annual Natural Sciences Academic Festival
POSTER PRESENTATION SESSION

Poster Presentation Title	Presenters	Course or Research	Instructor/Mentor
<i>Gravitational Waves</i>	Rainey Aberle	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Computation of Chemical Shifts for Paramagnetic Molecules: An Examination of Ferrocene</i>	James-Victor Alvarez	Chemistry 344: Physical Chemistry II Lab	Dr. Andrea Munro
<i>White Dwarf Stars</i>	Michele Anderson	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Investigation of Hydrogen Bonding of Phenol and Phenylalanine via Computational Chemistry</i>	Khrizelle Atienza	Chemistry 344: Physical Chemistry II Lab	Dr. Andrea Munro
<i>Nuclear Fusion</i>	Bryson Baligad	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Quarks</i>	Myles Barrow	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Intramolecular nitroso Diels-Alder reactions: tethering of an anthracenyl diene</i>	Heather Brusio & Alyssa Lyngaas	Chemistry 336: Organic Special Projects Lab	Dr. Neal Yakelis
<i>The Cellular Basis of Ewing Sarcoma</i>	Shelby Coates	Biology 442: Cell Biology	Dr. Amy Siegesmund
<i>The Basics of Warp Theory</i>	Justin deMattos	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Dark Matter</i>	John Doster	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Computational Analysis of Hydrogen Bonding in Phenol and Aniline via Infrared Spectroscopy</i>	Rebecca Doud	Chemistry 344: Physical Chemistry II Lab	Dr. Andrea Munro
<i>Prostate Cancer and the p53-MDM2 Pathway</i>	George Duma	Biology 442: Cell Biology	Dr. Amy Siegesmund
<i>Diffuse Intrinsic Pontine Glioma--a pediatric brain tumor with no effective treatments</i>	Anna Dye	Biology 442: Cell Biology	Dr. Amy Siegesmund
<i>In Search of the Island of Stability</i>	Jacob Eaton	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Tumor growth and metastasis of colorectal carcinoma</i>	Dalen Elenzano	Biology 442: Cell Biology	Dr. Amy Siegesmund
<i>Modeling Infrared Shifts of Dihydrate Shifts Using Gaussian</i>	Jacob Finney	Chemistry 344: Physical Chemistry II Lab	Dr. Andrea Munro
<i>Organic Light Emitting Diodes: How Quantum Mechanics is Lighting Up Our Future</i>	Jacob Finney	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill

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<i>Comparing Conjugation Differences in Polycyclic aromatic Hydrocarbons with Computation Chemistry</i>	Ciara Flanery	Chemistry 344: Physical Chemistry II Lab	Dr. Andrea Munro
<i>Heisenberg Uncertainty Principle</i>	Jeremy Flannery	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>The Higgs Boson</i>	Karsten Hendrickson	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Impact of Vessel Traffic on Hawaiian Humpback Behavior</i>	Lexie Higgins & Mikaela Haglund	Research on Hawaiian Humpback Whales	Drs. Jacob Egge & Julie Smith
<i>The effects of <i>Belonolaimus longicaudatus</i> on the root dynamics of turf grass and potential new host infection</i>	Quoc Bao Huynh	Biology 387: Special Topics: Plant Pathology	Dr. Kara Lanning
<i>Effect of the miR-183 family on apoptosis and cell cycle progression within cancer cells</i>	Quoc Bao Huynh	Biology 442: Cell Biology	Dr. Amy Siegesmund
<i>Wormholes</i>	Donovan Klega	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>The Science behind Interstellar</i>	Adam Lamontagne	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Quantum Cryptography</i>	Ryan Larm	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Computational analysis of hexanol</i>	Trang Le	Chemistry 344: Physical Chemistry II Lab	Dr. Andrea Munro
<i>Neutron Stars</i>	Brandon Lester	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Transition State Analysis of Halogenated Cyanide Isomerizations</i>	Jacob McKenzie	Chemistry 344: Physical Chemistry II Lab	Dr. Andrea Munro
<i>Einstein vs Quantum: Bell's Theorem</i>	Alex Moore	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Analyzing Basis Sets for The Hartree-Fock Method in Approximating NMR Spectra</i>	Marisol Navarro	Chemistry 344: Physical Chemistry II Lab	Dr. Andrea Munro
<i>miR-429 and miR-29c and the metastasis of colorectal cancer</i>	Jason Parillo	Biology 442: Cell Biology	Dr. Amy Siegesmund
<i>Quantum Computing</i>	Jesus Reyes	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill

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<i>Alcubierre Warp Drive</i>	Daniel Richards	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Can Host Specificity Change in Female Bean Beetles?</i>	Lianne Rivera & Natalia Cortez	Biology 362: Animal Behavior	Dr. Julie Smith
<i>IKK as a Druggable Target in the NF-κB Pathway of Lung Cancer</i>	Josefine Rodriguez	Biology 442: Cell Biology	Dr. Amy Siegesmund
<i>Where are all the aliens</i>	Joe Sammartino	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Comparing Computational Basis Sets of Potential Energy Vs. Bond Length in Hydrochloric Acid</i>	Justin Schmidt	Chemistry 344: Physical Chemistry II Lab	Dr. Andrea Munro
<i>Computational Study of Aromatic Solvent Induced Shifts in Eugenol and Eugenol-Based Derivatives</i>	Grant Schroeder	Chemistry 344: Physical Chemistry II Lab	Dr. Andrea Munro
<i>Particle accelerator</i>	Leying Shi	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Hawaiian humpback whale (<i>Megaptera novaeangliae</i>) behavioral response to vessel traffic</i>	Jadey Simmons	Biology 495: Intern - Ocean Mammal Institute	Dr. Julie Smith
<i>Using Computational Chemistry to Investigate the NMR Spectra of Cyclic Ketals</i>	Maddie Smith	Chemistry 344: Physical Chemistry II Lab	Dr. Andrea Munro
<i>Effects of UV Radiation on the p53 Gene and How this Leads to Cell Proliferation, Apoptosis, and Skin Cancer</i>	Sydney Smythe	Biology 442: Cell Biology	Dr. Amy Siegesmund
<i>COL11A1 and TGF-β in Ovarian Cancer</i>	Hayley Sonneson	Biology 442: Cell Biology	Dr. Amy Siegesmund
<i>Apparent Superluminal Motion</i>	Sydney Spray	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Nature's Telescope: Gravitational Lensing</i>	Carly Stauffer	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>Black Holes</i>	Chan Thourk	Physics 223: Elementary Modern Physics	Dr. Sean O'Neill
<i>The role of Merkel cell polyomavirus and mTOR activation in Merkel cell carcinoma</i>	Jacynda Woodman-Ross	Biology 442: Cell Biology	Dr. Amy Siegesmund
<i>Metastatic Melanoma and BRAF</i>	Tessa Wright	Biology 442: Cell Biology	Dr. Amy Siegesmund