

BOARD #	POSTER TITLE	PRESENTER(S)	AFFILIATION
1.	Can Isothiocyanate Sulforaphane Affect The Major Histocompatibility Complex Surface Expression In Cancer Cells ?	Ali Salam Abdullah	USM
2.	Effects of CAG Repeat on Huntington's Disease.	Nafisa Idow Abukar	SMCC
3.	Treatment of behavioral health problems and their relation to income level, gender, and insurance coverage in Maine.	Monica S. Alborg	USM
4.	Training T-Cells to Destroy Malignant Leukemia Cells	Brett Allen	SMCC
5.	Vibrational signals in the courtship behavior of the Japanese Beetle, <i>Popillia japonica</i> Newman (Coleoptera: Scarabaeidae)	Jackie R. Allen Andrew Fournier	USM
6.	Identifying heavy metals in the Presumpscot River sediment using X-ray fluorescence.	Jeremy J. Anderson Tavis Gibbons	SMCC
7.	Design and Construction of an Adaptive Golf Attachment for a Wheelchair	Matthew Araujo Mark Jacobs Collin Sage Brian Tarling Ryan Turner	USM
8.	Capacitive Characterization Procedure for Carbon/Polymer Compounds	Mako P. Bates Cameron Pomerleau	USM
9.	Spectral indexing methods to identify developed and built-up land features in the Sebago watershed using Landsat's Operational Land Imager	Kari Beaulieu	USM
10.	Generating Genomic Phage Libraries of Mono Lake Bacteriophage $\phi$ OM2-OM for Initial Genetic Analysis	Corinna M. Bellwood Lina Burns S. Monroe Duboise Melissa L. Gower Andy J. Hatch Karen D. Moulton Courtney Walker	USM
11.	The effects of nutrition on wandering behavior in <i>Manduca sexta</i>	Megan Bentzel	USM
12.	Heavy Metals as Confounders in Arsenic Exposure and Cancer Risk	Thomas Beretich	USM
13.	Selective Study of Maine Social Workers: Experience, Education, Gender, and Career Advancement	Julia Bergeron	USM
14.	Detailed Field Mapping of Timber Point and Timber Island Biddeford, Maine	Denise M. Bluhm	USM
15.	Genetic Modification of Human Germlines: A Potential Solution for Heritable Mitochondrial Disorders	Stephanie Boone	SMCC
16.	Preparation of a Recyclable Sulfonic Acid Functioned Carbon Catalyst Derived from Glycerol and Starch	Raymond Borg	USM
17.	Creating a Successful Probation Internship Program	Kathleen E. Bouchard	USM
18.	Design and Manufacture of a Demonstration Model of an Automatic Transmission	Viktor Barankevich	USM
19.	Determining a Good Urothelial Cell Line to Study Arsenic-Induced Bladder Carcinogenesis	Matthew C. Braun Melanie Hebert Amie L. Holmes	USM
20.	Decoding Change: Interpreting historic ecosystemic and climate pressures in the Gulf of Maine	Nathan J. Broaddus Alexandria Valente	USM
21.	Energy Expenditure Comparison Between Shoulder Shrugs and Calf Raises	Kenneth R. Brown Meghan D. Rumore	USM
22.	Prolonged Exposure to Particulate Chromate Inhibits the Nuclear Transport of RAD51	Cynthia L Browning Hong Xie	USM
23.	Population Genetics in Regard to Geographic Barriers	Jacob C. Bruce	SMCC
24.	Applying Inverse Distance Weighting to Predict Spatial and Temporal Abundance of Juvenile River Herring in the Penobscot River Estuary, Maine	Corey J. Bryant Amy Webb	USM
25.	Expression and application of recombinant human osteopontin	Alina Burns Tatsiana Kosciuk Lucy Liaw	USM
26.	An analysis of data compression algorithms, their applications, and the relationship between computational time and memory usage in compressed and uncompressed data.	Shaun L. Carland Nicole Kearns	USM
27.	Leveling Up Education Through Gaming	Eric Clancy	USM
28.	Sef is Physically Associated with IKK2	Kyla Rei Clark Robert Friesel Lindsey Gower	USM
29.	The Effects of Exercise on Pain in Adults with Osteoarthritis	Jeffrey Cole Elise Scala	USM
30.	Chrome Packaged App Development	Patrick Conant	USM
31.	Examining diabetes risk among MaineCare (Medicaid) members with a diagnosis of Serious Mental Illness (SMI)	Anne Connors	USM
32.	Pillow Talk: The Epigenetic and Physiological Effects of Sleep Deprivation in Humans	Jennifer D. Cotter	SMCC
33.	Genetic Mutations That Affect Insulin Receptors That Cause Type 2 Diabetes (T2D)	JaLise M. Cotton	SMCC
34.	Predatory odor response in blue mussels ( <i>Mytilus edulis</i> ) in defense against Jonah crabs ( <i>Cancer borealis</i> ), sea stars ( <i>Asterias rubens</i> ), and whelks ( <i>Nucella lapillus</i> )	Jenna Cyr	USM
35.	Variation in mobbing calls of black-capped chickadees ( <i>Poecile atricapillus</i> ) in rural and urban areas	Alex Dalton	USM
36.	The Not So Golden Years: An Exploratory Study of Homeless and Marginally Homeless Seniors as Social Service Consumers	Amanda DiBiase Stephanie Olson	USM

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37.	A Digital Atlas of Avian Fauna From The Gulf of Maine	Rebecca M. Ditano	USM
38.	Polyvinyl Alcohol Enhancement of Sodium Borohydride Hydrolysis for Hydrogen Generation	Patrick M. Doherty Bryann Morgan Deedra Zeeh	USM
39.	Attic Source Heat Pump	Julie A. Doxsey	USM
40.	LED Array Design to Simulate Solar Radiation for Indoor Testing of Solar Cells	Brent Dube	USM
41.	Agouti Gene: What makes a German Shepherd's coat so beautiful?	Tracy Dubovik	SMCC
42.	Three-Dimensional Feature Identification from Image Stacks of Fetal Kidneys	David W. Ericson David Champlin Clare Bates Congdon Leif Oxburg	USM
43.	Can an enzyme of the pathogenic bacterial immune system be the new key to genetic therapy?	Amanda Estes	SMCC
44.	Speaking in Tongues: The perceptibility of a historically plausible constructed language	Christian C. Evans	USM
45.	Investigating Particulate Hexavalent Chromium-Induced Carcinogenesis through a Sister Chromatid Cohesion Mechanism	Carolyn Falank	USM
46.	Anterior Shoulder Instability Secondary to Gleno-humeral Joint Subluxation.	Dan Farren Kevin Grenier	USM
47.	Experimental, Theoretical and Simulatory Stress Analyses of Thin-Walled Open and Closed Tubes	Jacob Finley	USM
48.	Comparative toxicity analysis of a botanical based insecticide using <i>Vibrio fischeri</i> and <i>Daphnia magna</i>	Andrew D. Fournier Leticia B. Smith	USM
49.	Mechanical Grip Assisting Device	Jacob Fowler Galen Richmond	USM
50.	Embryonic Kidney Development in Mice	Lindsay Fox	USM
51.	Who Wants to Live Forever? Induced Pluripotent Stem Cells: A Curse or a Blessing?	Hanna Froebe	SMCC
52.	Injection Drug Users in Portland, Maine: A Demographic Profile	Elizabeth Garnatz	USM
53.	Diet Reconstruction of a 17th Century Fishing Community: Faunal Remains and Butchery Practice	Molly M. Garson	USM
54.	Trends in Youth Marijuana Use: Comparison of Maine and National Data	Macklin Gebhard Gaynor	USM
55.	Crazy Drunk: An Investigation Into the Genetic Overlap Between Bipolar Disorder and Alcoholism.	Tristan D. Glenn	SMCC
56.	On the Spectrum Since Inception	Jason W. Glynn	SMCC
57.	Complete genome sequencing and transmission electron microscopy analysis of Mono Lake bacteriophage $\Phi$ OM2-OM	Melissa L. Gower Andrew Hatch Karen D. Moulton Miyad Movassaghi	USM
58.	Urban Stormwater and River Quality	Patrick Gregorich Jenna Martyn-Fisher	USM
59.	Heat Collectors Through Active Solar Energy	Allen S. Guinoo Joshua A. Stewart	USM
60.	Shoals Marine Laboratory: History Week, Public Education and Outreach	Ashley Guppy	USM
61.	Synthesis of Trehalose Analogues: Rapid Access to Chemical Probes for Investigating Mycobacteria	Krystal S. Haislop David Finocchietti Peter Woodruff	USM
62.	The Physics of a Space Elevator	Trevor Hamer	USM
63.	Adjustable Audio Filter Using a Microcontroller	Samuel Harmon	USM
64.	A Comparison of the Major Head Proteins and Scaffold Proteins of Two Morphologically Identical Prolate Capsid Bacteriophages Isolated from Similar Extreme Environments in North America and East Africa	Andrew J. Hatch S. Monroe Duboise Naun Lobo Karen D. Moulton Miyad Movassaghi Francis Mwaur Lynn Rothschild	USM
65.	Estimating forest canopy cover using smartphone and tablet-based handheld thermal imaging systems	Sarah Henderson	USM
66.	Satisfaction with School Social Workers from the Perspective of School Resource Officers	Brittini Herring	USM
67.	Effects of Hydrolysis and Electrolysis on Cellulosic Slurries	David R. Holmes	USM
68.	Conservative Anterior Cruciate Ligament Rehabilitation	Brandan Holmquist Cody McFarland	USM
69.	Intensity, rate, and outcome of agonistic interactions in harbor seals ( <i>Phoca vitulina</i> ) in relation to density on haul-out ledges	Anne F. Honeywell	USM
70.	HIV-1 Lentivirus for Gene Therapy	Yvonne Hougham	SMCC
71.	Sustainability at the Local Level	Sarah Huber Patrick Gregorich Megan Pryor	USM
72.	God in the White House	Megan C. Hulbert	USM

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73.	The role of CD33 in the pathology of Alzheimer's disease	Megan E. Hutcherson	SMCC
74.	A Qualitative Study of English as Learned Language (ELL) Students at Portland High School	Victoria Hynes	USM
75.	Wiring and Calibration of a Wind Tunnel for the Purpose of Testing Wind Turbine Performance	Mark Jacobs	USM
76.	Qualified To Dig: Assessing State-Specific Qualifications for Principal Investigators on Archaeological Sites	Jennifer Johnson	USM
77.	HLA-B27 and its Role in Ankylosing Spondylitis (Bamboo Spine)	Joshua R. Jones	SMCC
78.	Solar Updraft Tower	Jeremy D. Jones	USM
79.	Comparing Various Digital Imagery Techniques to Determine Landslide Activity	Erin M. Kaye	USM
80.	Review of Teen Birth Rates in Maine Counties	Jacey Keller	USM
81.	One-Handed Bathroom Tissue Dispenser	Timothy Kelley Greg Ahlquist Sara Bishop Hayley Clavette Derek Gobeil	USM
82.	Amplification of HK97-Like Portal-Major Capsid Protein Gene Fragments from Mono Lake Bacteriophages	Tanya E. Kelly Marsha G. Michalek	USM
83.	Comparing Anaerobic and Aerobic Energy Expenditure Between Genders	Ann-Uriel Knausenberger Sarah N. Tompkins	USM
84.	Medial Tibial Stress Syndrome	Jacqueline Knowles Sabrina Crucianelli	USM
85.	Genes Involved in Extra Wing Veins in <i>Drosophila</i>	Annette Kowalik	USM
86.	Multi-Axis Dual Transducer Support Structure for Ultrasonic Testing	Christopher Kruse	USM
87.	Gene Therapy In Mice With Phenylketonuria	Frank A. Lauria	SMCC
88.	An Instrument for Detecting Mathematical Misconceptions in GIS Education	Daniel Lawrence	USM
89.	Computational Inference of Candidate Regulatory Elements in the Purple Sea Urchin Genome	Craig Lessard	USM
90.	Complete Genome Sequence and Characterization of Mono Lake Bacteriophage $\Phi$ OM3-ST Which Infects a Halomonas Host Closely Related to Halomonas sp. GFAJ-1	Khounng C. Lim Andrew J. Hatch Karen D. Moulton Lynn Rothschild	USM
91.	Functional Analysis of a Novel Cluster of Genes Conserved in Extremophilic Bacteriophages $\Phi$ 1N2-2 and $\Phi$ 1M2-2 from Alkaline Hypersaline Soda Lakes in Kenya's Great Rift Valley	Catherine Lobo	USM
92.	Gender differences between overall resistance work and overall energy costs	Stephanie Lomasney Meg Bosse Amanda Lessard Abigail Steitz	USM
93.	Resistance Exercise and Energy Costs: Does One Model Fit All?	Alexander Luchini Joseph Young	USM
94.	Agonistic Displays in Male Siamese Fighting Fish ( <i>Betta splendens</i> ) and the Effects of a Female Audience on Display Choice	Raisa Santos Luck	USM
95.	Automated Coordinate Ambiguity Analysis	Colin Mahoney Adam M. Hosack Tatiana Romanchishina Erik Van Till	USM
96.	Soil Microbes' Metabolism of Antibiotics in the Environment	Anna Makaretz	USM
97.	A genetic comparison of boreal Northern Maine and brackish Southern Maine populations of <i>Phragmites australis</i>	Nick Marquis	SMCC
98.	Investigating The Mechanisms of Chromium(VI) Carcinogenesis: Effects on The Centrosome and the Nek2 and Eg5 Kinases	Julieta Martino Amie L. Holmes Hong Xie	USM
99.	Rubik's cube solver	Isaiah Marvin	USM
100.	In situ Growth rates and light intensity of <i>Sacharina latissima</i> (Brown algae- Sugar Kelp)	Ashleigh J. Maxwell	SMCC
101.	DNA barcoding of marine invertebrates using Folmer primers	Jessica Mayhew Brent Lawson Nick Marquis Thomas Tibbetts	SMCC
102.	Is the wasting disease pathogen <i>Labyrinthula zosterae</i> present within Eelgrass ( <i>Zostera marina</i> ) populations in Casco Bay, ME?	Jessica Mayhew	SMCC
103.	GenomeScan: a computational tool for identifying DNA motifs in large genetic sequences	Samuel McFarland Clare Bates Congdon Christine W. Duarte Leif Oxburgh Jeffrey A. Thompson	USM
104.	Achilles Tendinitis	Devon A. McKay Tayla M. Genesisio	USM
105.	Assessing occurrence and risk of eastern hemlock trees ( <i>Tsuga canadensis</i> ) infestation by hemlock woolly adelgid ( <i>Adelges tsugae</i> ) in Maine using foliar chemistry	Kristie McLaughlin	USM

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106.	Intimate Partner Violence, Violence Against Women, and Sexual Violence in Central African and American Cultures	Olivia Meyer	USM
107.	Mechanisms of telomerase regulation in humans	Nelea Mihaila	SMCC
108.	Efficient Data Model for Digitizing Geologic Legacy Data	Silas Miller	USM
109.	Windows Versus MacBook: A Security Comparison in Maine Schools	Melissa Miller	USM
110.	Returning Home: Maine Combat Veterans in the Maine court system.	George Moody	USM
111.	Shoulder Impingement Syndrome	Robert Morong Tyler Hartman	USM
112.	A computational investigation into candidate regulatory elements for CREM, cAMP responsive element modulator	Michael E. Morrison Clare Bates Congdon Jeffrey Thompson	USM
113.	Sickle Cell S and C Provide Resistance Against Malaria	Sandra Binda Mvita	SMCC
114.	Prevalence of Compassion Fatigue in Licensed Clinical Social Workers	Rachel Neales Kelley Porter	USM
115.	Manufacturing methodology for a Prosthetic Hand	Tru Nguyen Aaron Delano Kyle Green Cody Poland	USM
116.	TRC (textile reenforced concrete)	Jeremy D. Niles	USM
117.	Remote Controlled Camera Wheelchair Attachment	Andrew Norster	USM
118.	Chromium (VI) and Arsenic Co-exposure Induced Transformation in Human Lung Epithelial Cells	Nicole E. Nutter John Wise Sr. Hong Xie	USM
119.	Stakeholder Needs Assessment of Riverbank Park's Current and Future Uses	Hannah Ober Elise Roux Rachel Wakefield	USM
120.	Recycling rates increase with increase in size of container and decrease in collection: Research of gray literature.	Hannah Ober	USM
121.	Canine Aggression	Isabella O'Toole	SMCC
122.	Gender Role Orientation and Competitive Orientation	Elsbeth K. Paige-Jeffers	USM
123.	Design and Manufacture of a Mechanically Driven Clock	Matthew Palmer	USM
124.	USM Faculty's Simulation Assessment	Sara Patterson	USM
125.	Energy Harvesting DC/DC Converter For LED Lighting	Ron Peterson Nick Carville	USM
126.	Medial Collateral Ligament Rehabilitation	Justin Peterson Chris Ross	USM
127.	Parent perspective on Home and Community Treatment (HCT)	Bethany Peterson	USM
128.	Wind Pattern Effects on the Southern Shetland Islands	Helen Pottle	USM
129.	Cytotoxicity and Genotoxicity of Cr(VI) in Human Lung Cells Cultured in Low Glucose Medium	Christopher Poulin	USM
130.	The battle between malaria parasites and humankind	Lam Tut Puk	SMCC
131.	Opportunity Youth Project: Evaluating At-Risk Youth's Access To Needed Services and Public Transportation	Philip E. Quinn	USM
132.	Homologous Recombination is Required to Protect against Cobalt Induced Chromosomal Instability (CIN)	Sean M. Raph Sandra Wise	USM
133.	Bathymetric Mapping and a Comparison of Models for Beaver Dam Pond in Acadia National Park, Maine	Alyssa Reischauer	USM
134.	Stable Isotope Analysis of Waterfowl Diet in an Urban Park	Sydney Robinson Amy Webb Margaret Welch	USM
135.	Hypercompetitiveness and the Acceptance of Cosmetic Surgery among Women and Men	Maija Robbins	USM
136.	Impingement Due to Postural Deficiency Caused by Muscle Imbalance	Matthew G. Robinson	USM
137.	The East Bayside King Tide Party	Rachel Rousseau	USM
138.	Screening for Cervical Cancer in Women Ages 18-34 in Maine	Meghan Rousselle	USM
139.	Recombinant Expression and Self Assembly of Capsid Proteins from Bacteriophages HK97 and $\Phi$ 1N2-2 in Escherichia coli	Michaela Sangillo Naun Lobo Karen Moulton Justin Stolte	USM
140.	Chromium and Nickel Interaction in Sperm Whale Skin Cells	Melissa Sassman Sandra Wise John P. Wise Sr.	USM
141.	Production of Monoclonal Antibodies to C-Terminal Domains of Osteopontin Using OPN Deficient Mice	Renee L. Sawyer	USM
142.	Do Bacteriophage Infect Bacteria Associated with Lobster Shell Disease	Michelle Sazehn Sandy Connors Brittany Guay Sarah Scott	SMCC
143.	PCR with a Sea Star	Michelle Sazehn	SMCC

BOARD #	POSTER TITLE	PRESENTER(S)	AFFILIATION
144.	Language, Cultural Competence, and Workload: Experiences of Bilingual and Multilingual Social Workers	Kelly Schussler	USM
145.	The Difference in Aerobic and Anaerobic Energy Costs During Weightlifting	Sarah M. Shapiro Deline P. Dwelly	USM
146.	Cold Weather Microclimate Conditions Within Gordenrod Galls	Katie Shapiro	USM
147.	How Ataxia affects the body and the family	Anthony Simpson	SMCC
148.	Plotting electrical circuits	David Small	USM
149.	Mapping Maine's Food Processors: A Spatial Analysis Addressing Market Barriers	Cecilia Barion Smith	USM
150.	Verifying Lead Occurrence in Small, Single-use Propane Canisters	Jason M. Smith	USM
151.	Non-Surgical Meniscus Rehabilitation	Nicole Spencer	USM
152.	Identification of Slums in Mumbai, India Using Remote Sensing Techniques	Ani M. St. Amand	Brenda Joly
153.	Shoulder Rehabilitation with Multidirectional Shoulder Instability and Sub-Acromial Shoulder Impingement	Emily Staples Matthew Dove	Brenda Joly
154.	Design and Construction of an Automatic Page Turner for People with Disabilities	Matthew Stewart Jesse Mcintire Edwin Meserve Hector Ortiz Seth Tillson	Brenda Joly
155.	Genotoxicity of Hexavalent Chromium and Arsenic Co-Treatment in Human Lung Fibroblasts	Jason Stewart Nicole Nutter John P. Wise Sr. Hong Xie	Brenda Joly
156.	Dexterous Prosthetic Foot Design	Zachary J. Stewart Matthew A. Gordon Kevin Hutchens David Manzenberger	Brenda Joly
157.	Image Manipulation with Optical Character Recognition (OCR) open-source Software Google Tesseract.	Joshua Switter	Brenda Joly
158.	Design and Manufacture of a Charpy Impact Testing Machine	Ben Sutherland	Brenda Joly
159.	Proximal Upper Extremity Weakness Assistant	Philip Swanson Dominic Blais Corey Latourneau Ashley Soucy	Brenda Joly
160.	Effects of Radiation on Neuronal Metabolism	Donald A. Szlosek Rebecca Ditano	Brenda Joly
161.	Investigating the Effect of Hexavalent Chromium on an Error-Prone Repair Pathway, Non-Homologous End Joining	Kelsey N. Thompson Qui Qui Hong Xie	Brenda Joly
162.	Exploring Differences of Maine Women Who Receive Pap Smears by County and Education Level	Nancy A. Thorp	Brenda Joly
163.	Exploring the roles of CARD15 and ATG16L1 In the Pathogenicity of Crohns Disease	Thomas J. Tibbetts	SMCC
164.	No trade-off between acceleration and endurance swimming ability in the Trinidadian Guppy ( <i>Poecilia reticulata</i> )	Maris K. Toland Sean P. Caddigan Scott Eugley Kevin Kennedy Christopher Schenk	USM
165.	Identifying High Crime Areas Using Spatial Analysis	Elisa A. Trepanier	USM
166.	Suicide in the Army National Guard: A comparison of two states and a preliminary review of current policies	Clifford Trott	USM
167.	Obesity Rates in New England States: And County Perspectives on Contributing Factors in Maine	Susan Walker	USM
168.	Drama therapy with the adult homeless population in Portland, ME.	Thomas Waltz Ashleigh Guild	USM
169.	Effects of Digital Elevation Model Resolution on Estimates of Flood Damage in Westbrook, Maine	Scott R. Webber	USM
170.	Strengths and Weaknesses, Successes and Failures of Prominent, Tried Delivery Systems for Gene Therapy	Justin Cutler Williams	SMCC
171.	Stream Crossing Barrier Prioritization Methods for Increasing Eastern Brook Trout Habitat in the Little Androscoggin River Watershed	Michele Windsor	USM
172.	Comparative Toxicity of Hexavalent Chromium (Cr(VI)) in Human and Alligator Cells	Catherine F. Wise Louis J. Gillette Sandra S. Wise John P. Wise Jr. John P Wise Sr. Hong Xie	USM
173.	UV Cartridge for Materials InkJet Printer	Richard G. Wiswell	USM
174.	Habilitation Training Curriculum: Is It Useful?	Christine M Wyman Ryan K Cole	USM