

The Tenth Annual Academic Excellence Conference

Join Keene State College students and their mentors to learn about some of the most ambitious academic work of the 2009–10 year. The conference is held in the David F. Putnam Science Center and the L. P. Young Student Center.

8:15–9:00 A.M.

STUDENT CENTER ATRIUM

Registration

Presenters, sponsors, and attendees are welcome to pick up their programs and enjoy a continental breakfast.

9:10–10:10

STUDENT CENTER, MABEL BROWN ROOM

Performance

The Composer's Muse: Inspiration for Musical Compositions
Brian Campbell

9:10–10:10

SCIENCE CENTER

Oral Presentations

S102

Resisting Influence: Central Bank Independence in Latin America
Jacob Barrios

Incentives and the Overvalued Stock of American International Group
John Garvey

S126

What Is Hidden in Robin Hood Park? A Natural Resource Inventory Explores
Jon Paquette, John Lorette, Melissa Sweeney, Ian Galipeau, Aileen Shaw

Wind Energy at KSC: The Possibilities
Christopher Sico

S127

A Mathematical Card Trick
Michael Barry

An Intellectual Coin Toss!
Stephanie Brooker, Nicole Lia

S154

Untangling the Passionflower Vines: Evolution of *Passiflora* Subgenus *Decaloba* Based upon ITS Sequences
Erika Brooks

Untangling the Passionflower Vines: Preliminary Insights on the Evolution of *Passiflora* Subgenus *Decaloba* Based upon trnL-F Sequences
Anna McLean

S161

Building and Sustaining a Health Promotion Program to Combat Obesity
Melissa Stopera, Taryn Hagan

Diabetic Nephropathy: Risk Reduction
Melissa Stopera

S163

A Conservative Approach for an Acromioclavicular Joint Separation
Stephanie Clark

Effects of Tapering on Elite Athlete Performance
Matthew Roberts

S175

North American Cultural Beauty Standards and Their Influence on Disordered Eating in Women
Kelly McCall

Victorian Ideals and Eating Disorders in Contemporary American Society
Elizabeth Mullen

S181

Rindge Town Center Master Plan
Alison Matilainen, Justin Powers

Java Game Programming: Tetris
James Dahlen

10:20–10:50

STUDENT CENTER, MABEL BROWN ROOM

Performance

Educating the Audience

Angie Hartley
Performers: Emily Chrusciel, Anna Cerilli, Andrea Dumas, Becky Midler, Nina Robinson-Poole

10:20–11:20

SCIENCE CENTER

Oral Presentations

S102

Do Cigarette Taxes Achieve the Desired Effects in the Presence of Smuggling?
Jacob Bodoh

What Factors Determine the Supply of Female Prostitutes?
Luca D'Italia

S126

***Xenopus laevis* Vocalizations: A Potential Model for Examining Endocrine Disruption**
Kelly Hideriotis

Mercury Transport from Aquatic into Terrestrial Habitats.
Katherine Edes

S127

Child Labor in the Age of Globalization
Sarah Bond

Teaching for Global Awareness
Lauren Elliott

S129

Sports and Violence: Injury and Assault Consequences
Alessandra Johnson

The Impact of Performance Enhancing Drugs on the Nature of Sport
Brianna Dassatti

S154

Identity by Way of Theatricality in *Antony and Cleopatra*
Justin Levesque

Comedy in Aristophanes' *Lysistrata*

Ashley Simpson

S161

The Braess Paradox
Colleen Nielsen

The Infinitude of Primes

Justin Thibault

S163

Human Evolution Through Fossil Evidence
Susanne Cataldo

A Journey Through Bavaria – from Castles to Dachau
Tabetha Corriveau

S175

Deadly Silence
Michelle Lindberg

A Case for Genocide: Nazi Crimes against the Poles During the Second World War
Michelle Sigiel

S181

Pick's Formula: Area on a Geoboard
Callahan Connors, Abigail O'Haire

Algebra Tiles: The Gateway to Exploration (workshop)
Michael Barry, Alisha Stevens

S275

Peer Education and the Academics of Student Health
Leah Groppo

Omega-3 Fatty Acids and Immunity in Women
Danielle Allen

S282

Prevention, Early Detection, and Treatment Options for Skin Cancer
Jean Troiano

The Evolution of Athletic Training as an Allied Health Care Profession

Jean Troiano, Sossan Al-Darraj, Stephanie Clark, Megan Krusinski

11:30–12:30

SCIENCE CENTER

Panel Presentations

(one-hour presentations)

S102

Creative Rebels: Letting the Art and Literature Speak for Itself in French Romantic Society

Kayla Dreyfuss, Kelly Hideriotis, Patrick Marr, Ian Casey, Shannon Lacy

S126

Sports Economics

Laura Demanche, James Barone, Marc Silano

S127

Energy Economics

Casey McBrien, Nimit Palicha, Danielle MacConnell

S154

From the Text to the Township: African Lessons

Kelly Payeur, Nicole Ferri, Nathan Rowe, Matthew Miracle, Corey Smith

S161

Homelessness in New Hampshire

Jennifer Radler, Michael Cassese, Lauren Rosenzweig, Caila Gannett, Christina Lombardo

S163

Hate Crimes and Groups in the United States

Krystin Cooper, Allison DeStefano, Robert DiGangi, Katelyn Kelleher

S175

Differences in Approaches to Resistance Training in Physical Education and Athletic Training Settings at the Middle School Level

Tracy Gray, Sossan Al-Darraj, Jean Troiano, Mollie Jean Burgess, Allison Franklin

S181

Queer and Loathing in America:

Monsters, Terrorists, and Fags

Steven Gonzalez, Jonathan Donais, Alicia Kocinski, Sara Crisp

S275

Is Biodiesel Better? A Comprehensive Evaluation of Diesel vs. Biodiesel Exposures at a Rural Recycling Center

Kyle Barnett, Alissa Couturier, Gregory Goupil, Ryan Hall, Daniel O'Brien, Dustin Sciacca, Melissa Sweeney, Thomas Zimmerman
Collaborative Researchers: Peter Kersker, Anthony Santa Fe, Ben Lazich

S282

Who Speaks the Best Spanish?

Molly Brewer, Kelley Cmara, Caitlin English, Marc Perreault, Kristen Pollock

12:35–1:45 PRESENTERS' LUNCHEON

ZORN DINING COMMONS

Keynote Address

Research as a Journey of Discovery, by Dr. Gordon Leversee, Dean of the School of Sciences and Social Sciences

1:55–2:55

SCIENCE CENTER

Oral Presentations

S102

Does the Credit Card Industry Take Advantage of the Poor?
Gino Frisella

The Sustainability of the Current Account Deficit
Colin Volz

S126

Economic Considerations for Opening a Golf Course
Marc Silano

Is Cap and Trade Beneficial for the Free-Market Economy, and Should the United States Implement a Trading System?

Robert DelBuono

S127

Jane Yolen: One Author's Interpretations of Authurian Legend

Peter Best

The Fidelity of Literature to Film Adaptations

Kade Hill

S154

Now It's Dark: Exploring Duality in *Blue Velvet* and *Mulholland Drive*

Justin Levesque

Spaghetti Westerns as Post-apocalyptic Texts

Benjamin Davis

S161

B-vitamin Consumption and Prevention of Alzheimer's Disease

Erica Haas

Monosodium Glutamate and Its Impact on Caloric Intake

Janelle Derella

S163

Coral Reef Monitoring on Providenciales, Turks and Caicos Islands

Charlotte McCleery, Dwight Churchill

Measuring and Localizing Kinetochore Proteins in Cancer Cells

Nicolle Siddall

S175

Has Global Warming Increased the Number and Intensity of Hurricanes?

Rebecca Lazinsk

Global Warming: A Skeptic's View

Erica Burke, Elizabeth Mitchell

S181

Seeing ISN'T Believing

Alison Dreyfuss

A Study on Therapeutic Horsebackriding and Substance Abuse Treatment

Cali Bowman

S275

A Qualitative Analysis of Marijuana Use as a Coping Mechanism

Kayla Hornbrook

Representations of Women in the Golden Age of Rap

Judd Faulkner

S282

The Limits of Respectability: The Pursuit of Women's Agency in Modern Germany

Meagan Blais, Forrest Parsons

The Death of the Soul: The Role of Excremental Assault in Nazi Concentration Camps

Meagan Blais

3:05–4:05

S102

Teaching Power, Authority, and Governance – Using Civil War Primary Sources to Understand Crucial Themes in American History

Jeffrey Provost

Teaching the Enlightenment Period: Understanding a Progressive Intellectual Movement Using a Holistic Social Studies Approach

Heather Meyer

S126

Sturm, Ruger and Newport, N.H.: A Relationship Built upon Skill

Samantha Rosendahl

Illuminating Social Capital: Case Study of the Pumpkin Festival

Evthoxia Kyrousis

S127

Instant Insanity

Christa Cody

Surveillance Cameras and Helly's Theorem

Alisha Stevens

S129

Eating Disorders in Female Athletes: Competing to Be Thin or to Win?

Allison Franklin

The Consequences of Global Warming?

Madeleine Basso, Benjamin Hon, Rebecca Pine

S154

Race Rituals and Race Relations Within the Theory and Practice of Whiteness in America

Samantha Bardell, Timothy Alvarenga

Understanding Le Chambon: Rescue During the Holocaust

Benjamin McPherson

S175

Preterm Neonatal Nutrition and Childhood Insulin Resistance

Kimberly Culver

No Child Left Behind in the Primary Grades

Leanne Milbert

S181

Paradoxes

Nicole Lewis

The Mathematical Satire of Charles Lutwidge Dodgson

Eric Miller

S275

Introduction to Natural Stress Combatants (workshop)

Karissa Mahoney

Methods of Propaganda and Social Persuasion Used in the Cold War

Kevin Malicki

S282

The Classic Demographic Transition Model in the Post-Industrial World

April Buzby

Sex, Race, and Celebrities: How Social Norms Have Changed Advertising over the Years.

Elisabeth Lull, Rachel Dagan, Rebecca Haley, Erin Wheeler

4:15–5:15

STUDENT CENTER, MABEL BROWN ROOM

Poster Presentations and Exhibits

Bacteria of the Ashuelot River

Amanda Izzo

Isolation of *Stenotrophomonas sp.* from Sand-Based Cow Bedding

Fred Brown

The Effects of Food Availability on Social Behavior in *Nephila clavipes*

Kimberly Layman

The Isolation and Characterization of *Lysinibacillus sphaericus* from Compost

Gregory Drugan

The Effects of Pyrene Exposure on Morphology and Steroidogenesis in Metamorphosing *Xenopus laevis*

Christin Gaudette, Jade Halsey

Effects of Pyrene Exposure on Cyp1A Expression in Adult *Xenopus laevis*

Jill Gormley, Jacob Neal

Synthesis of N-Heterocyclic Germylene Compounds

Elizabeth Neuhardt

Digging into Corruption and Foreign Direct Investment in Nigeria

Larisa Anderson

The Economic Viability of Geothermal Heating

Justin deMontigny

Analysis of Heavy Metals in Soil Samples along N.H. Route 101

Alicia Morrison

Heavy Metals in Ashuelot River Sediments at Keene State College

Jenifer Dickinson

Enter to Learn, Go Forth to Preserve: An Analysis of a Proposed Historic District in Keene, N.H.

Kathryn Bills, Neil O'Brien, Scarlett Silver

South of the Oval: A Comprehensive Corridor Study and Plan for South Street/Rte. 13 South in Milford, N.H.

Patrick Blaisdell, Erica Rader, Brenton Walsh

Space Invaders: Japanese Knotweed and the Restoration of Beaver Brook in Keene, N.H.

Heather Stringer, Christine Jones, Nathan Cadenhead, Bryan Lariviere

We Built This City on Walk and Roll: Steps towards a Transportation Transition in Keene, N.H.

Tudor Stanescu, Nick Rioux, Travis Heon

Collaborative Researcher: John Gigas

Making Health and Wellness Available in Rural New Hampshire

Alison Caouette

Influence of Weighted Backpacks on Posture

Anne Bonner, Ben Moreau, Stephanie Teves,

Katherine MacPherson

Measuring Core Muscle Recruitment During Functional Exercises

Kathy Schlegel, Sarah Szarejko, Stephanie Glavey,

RoseAnn Grimes

Food Science Principles: Living Gluten Free

Abby Rosen, Emily Walker

A Cultured and Isolated Species of *Chryseobacterium* from Robin Hood Park

Terence Petano

Evaluating Polyaromatic Hydrocarbon Degrading Microbial Communities in Spartina Marshes of the Great Bay Estuary, N.H.

Jeffrey Trethewey

Isolation and Characterization of *Citrobacter* Species from Keene State College Compost

Stewart Knapp

Isolation of *Proteus vulgaris* from Sediment Sample

Laura Zale

Novel Antibiotic Discovery

Duncan Momaney

Necessity of Adult Hippocampal Neurogenesis for the Processing of Complex Novel Information

Gregory Drugan

A Critical Analysis of Self-Respect and Interpersonal Respect with a Specific Focus on Responses to Situational Insult

Erin Halverstadt

Helicopter Parenting Style and Personality Development

Jenaya Paradis

Psychological Resilience among Urban Latino Young Adult Males and White American Male College Students: Determining Protective and Risk Factors

Aaron Mercado-Reza

Self-Esteem in Partner and Non-Partner Dating Violence amongst College Students

Marina Bagalio

Self-Respect and Hope as Predictors of Mental Health

Michelle Vining

The Effects of Mood on Learning

Carissa Mierzejewski

The Hope-Health Connection: A Correlational Study of Trait-Hope and Physical Health Outcomes in College Students

Michael Fedele

Diesel vs. Biodiesel Exposure: Evaluation of Elemental Carbon, Organic Carbon, and Indoor Air Quality at a Rural Recycling Center

Gregory Goupil, Kyle Barnett

Diesel vs. Biodiesel Exposure: Evaluation of Fine Particulate Matter Concentrations at a Rural Recycling Center

Ryan Hall, Alissa Couturier

Diesel vs. Biodiesel Exposure: Evaluation of Air Exchange at a Rural Recycling Center

Daniel O'Brien

Diesel vs. Biodiesel Exposure: Evaluation of Size-Fractionated Fine Particulate Matter Concentrations at a Rural Recycling Center

Dustin Sciacca, Melissa Sweeney

Assessing the Effects of Diversity on Macro-Social Outcomes

Katrina Weiss

The Historic Female Body: A Blur of Art and Reality

Sarah Luke

Exhibit

ALONG APPIAN WAY

Sexy-Sweet: American Soft-Drink Over Consumption

Shawn Ahern