

Apr 11th, 8:00 AM - 5:30 AM

# Full PDF Program 2015 Academic Excellence Conference

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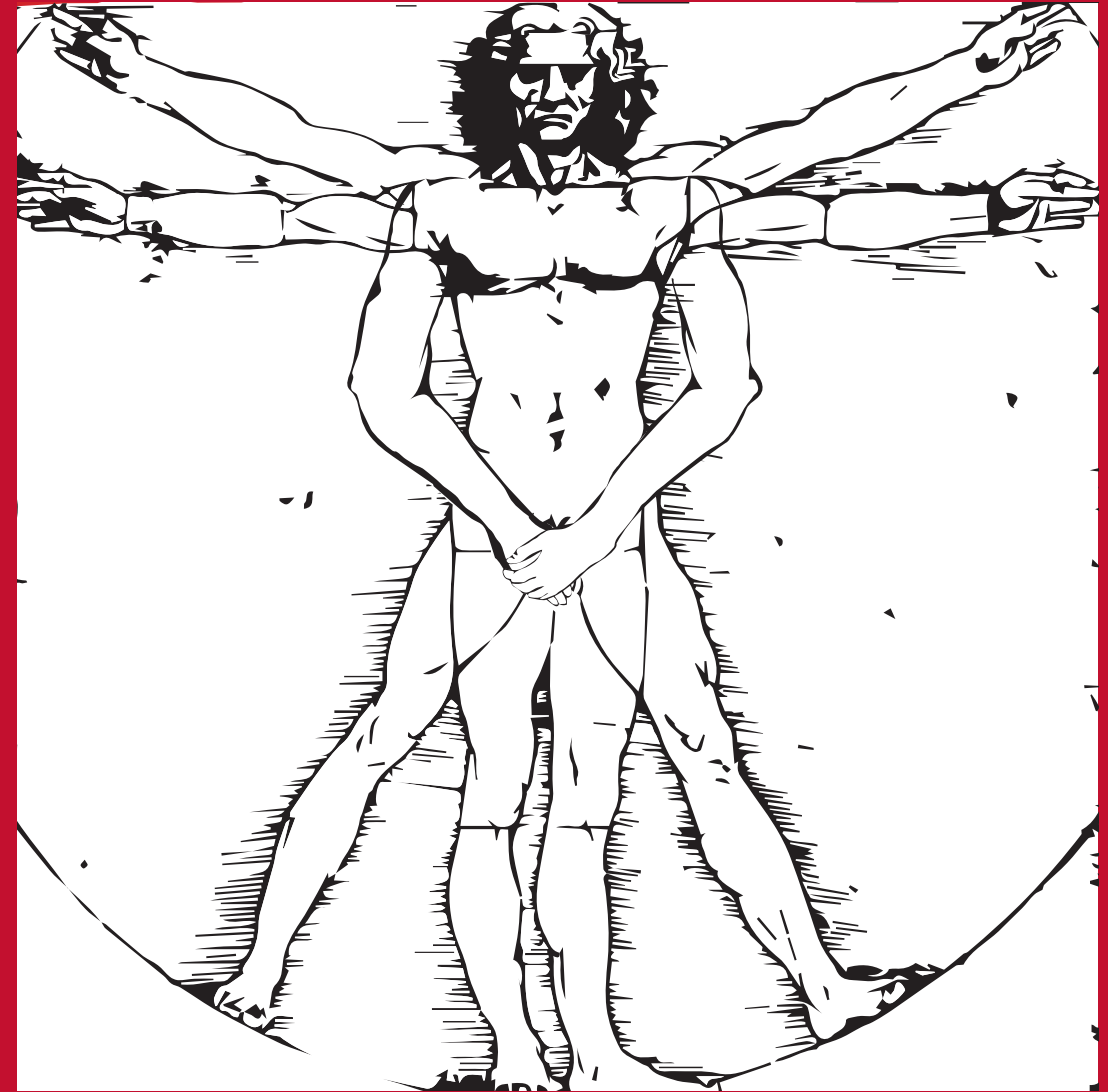
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**COME SEE** Keene State College's  
15th Annual Student  
Research Conference

**THEM BARE ALL**

**Academic Excellence Conference**



**Saturday, April 11, 2015**

**Keene**  
STATE COLLEGE

# 15th Annual Academic Excellence Conference Program

## Presentation Locations

David F. Putnam Science Center

Lloyd P. Young Student Center

## AEC 2015 Sponsors

Offices of the Provost and Associate Provost

KSC Student Assembly

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Advancement Division

Vice President for Student Affairs and Enrollment Management

Registration  
L. P. Young  
Student Center

8:20—9:00 a.m.

Attendees, mentors, family members, and the general public are welcome to pick up programs and enjoy a continental breakfast.

## Performances

L. P. Young Student Center, Mabel Brown Room

9:10-10:10 a.m.

***In Flight; The Process And Performance Of An Original Modern Dance***

Theatre and Dance

Presenter: Erin McNulty

Performers: Makayla Ferrick, Samantha Sampaio, Lara Underkoffler, Amanda Untracht, Nicolette Webber

Mentor: Marcia Murdock

***December Mourning And Falling; Two Dances From A Common Theme***

Theatre and Dance

Presenter: Meghan Quinn

Performers: Kimberly Best, Olivia Lynn, Hanna Patterson, Amanda Untracht, Samantha Sampaio, Makayla Ferrick, Claire McRae, Lara Underkoffler

Mentors: Marcia Murdock, William Seigh

## Oral Presentations

David F. Putnam Science Center

9:10-10:10 a.m.

Room 102

**A Sum Of Products Trick**

Mathematics

Presenter: Shannon Daley

Mentor: Vincent Ferlini

**Optimum Arrangement Of Points**

Mathematics

Presenter: Derek Blunt

Mentor: Vincent Ferlini

**Repunits: Natural Numbers In Which Every Digit Is A One**

Mathematics

Presenter: Meegan Ellis

Mentor: Vincent Ferlini

Room 126

**Weird Fractions**

Mathematics

Presenter: Megan Fisk

Mentor: Vincent Ferlini

**Solutions To Quartic Equations**

Mathematics

Presenter: Alyssa Valladares

Mentor: Vincent Ferlini

**When Do The Quadratic Polynomials  $px^2+qy+r$  And  $2px^2+qy+r$  Both Factor?**

Mathematics

Presenter: Brooke Hatanaka

Mentor: Vincent Ferlini

Room 127

**Optical Cloaking Of Images**

Mathematics

Presenter: Andrew Penfield

Mentor: Vincent Ferlini

**Elliptic Curves: How The National Security Agency Hacked Our E-Mail**

Mathematics/Computer Science

Presenter: Kegan Landfair

Mentor: Joseph Witkowski

Room 175

**Investigating Criminal Intent With Mobile Botnets**

Computer Science

Presenter: Joshua Pritchett

Mentor: Wei Lu

**Where Have All The Files Gone, Long-Time Passing?**

Computer Science/Sustainable Product Design

Presenter: Paul Sehmel

Mentor: Wei Lu

## Panel Discussion

David F. Putnam Science Center

9:10-10:10 a.m.

Room 154

**A “Rungi Chungi” Panel**

Morris-August Honors Program & Interdisciplinary Studies

Presenters: Danielle Fallette, Matthew McDougal, Emily Brochu,

Shannon Melendy, Kaleb Lique Naitove, Laken Thomas, Joseph Martino

Mentors: Tom Bassarear, Renate Gebauer

## Performances

L. P. Young Student Center, Mabel Brown Room

10:20-11:20 a.m.

**Untried Ideas: Composing Music For Unfamiliar Instruments**

Music

Presenter: Thomas Fox

Mentor: Heather Gilligan

**Emulating Bach: The Balance Between Stylistic Imitation And Artistic Expression**

Music

Presenter: Scott DeMeo

Performer: Maria Franciosa

Mentor: Heather Gilligan

## Oral Presentations

David F. Putnam Science Center

10:20-11:20 a.m.

Room 102

**“We Can’t Stop:” The Verbal And Visual Rhetoric Of Miley Cyrus And Robin**

**Thicke’s 2013 Music Video Awards Performance**

Communication

Presenter: Kalie Randlett

Mentor: Jamie Landau

**Entertainment And Redemption: A Fantasy Critique Of *The Wrestler***

Communication

Presenter: Robert Cayes

Mentor: Jeff Halford

Room 126

**“Her Mood Will Needs Be Pitied”: Agency, Madness, The Pathetic, And Ophelia**

English

Presenter: Emily Cackowski

Mentor: Brinda Charry

**Controlling The Storm: The Magic Of Language In Shakespeare’s *The Tempest***

English

Presenter: Collins Uttermann

Mentor: Brinda Charry

Room 127

**Cold Water Immersion Vs. Warm Water Immersion On Delayed-Onset Muscle Soreness**

Physical Education

Presenters: Makayla Clarke, Nicole Gindraux

Mentors: Melanie Adams, Wanda Swiger

**To Be Physically Active Or Not To Be?**

Physical Education

Presenters: Diana Pimer, Alison O'Brien, Eric Radermacher

Mentors: Fitni Destani, Melanie Adams, Eric Carpenter

Room 154

**x + x: Women In Mathematics**

Mathematics/Women's and Gender Studies

Presenter: Katherine Marinoff

Mentor: Ockle Johnson

**From The High Seas To Life Insurance: The Mathematics Of Nathaniel Bowditch**

Mathematics

Presenter: Maureen Moran

Mentor: Dick Jardine

Room 161

**Whose Life Matters: Social Contradictions In The U.S. About The Sanctity Of Life**

Sociology

Presenter: Sarah Croitoru

Mentor: Therese Seibert

**Queering Sexuality And Relationship Education: A Practical Way To Integrate Lesbian, Gay, Bisexual, Transgender, And Queer/Questioning Youth Into Sexuality Education In The United States**

Sociology/Women's and Gender Studies

Presenter: Sarah Croitoru

Mentor: Karen Honeycutt

Room 175

**Assessing Alternatives: Chemical Content Analysis Of Biodiesel Vs. Diesel Fuel Emissions**

Chemistry/Environmental Studies

Presenters: Ethan Hotchkiss, Niko Brown, Michael Cavacas

Mentors: James Kraly, Nora Travis

Grant: NIH (1R15ES022431-01) “Real World Biodiesel Particulate Matter Exposure and Toxicological Responses”

**Gold Complexes And Novel Caffeine Derivatives**

Chemistry

Presenter: Sean Millikan

Mentor: Daniel Rabinovich

Grant: 2014 NanoSURE REU Program

## Performances

L. P. Young Student Center, Mabel Brown Room

11:30 a.m.-12:30 p.m.

**Rehearsal And Performance Strategies With Chock Full O’ Notes, KSC’s A Cappella Vocal Group**

Music

Presenter: Julia Reinoehl

Mentor: Sandra Howard

**Medieval Music In A Modern Choral Rehearsal: Thomas Tallis**

“If Ye Love Me”

Music

Presenter: Emily DeAngelis

Mentor: Sandra Howard



