



**15TH ANNUAL
UNDERGRADUATE
RESEARCH SYMPOSIUM
MAY 3, 2012**

**15th Annual
Undergraduate Research Symposium
May 3, 2012**

PROGRAM

| | | |
|----------|---|---|
| 8 am | Continental Breakfast Setup for posters in Dining Commons, first floor, and Veterans Hall, Ellison Campus Center | Dining Commons, second floor |
| 8:45 am | Opening Remarks Dr. Kristin Esterberg, Provost and Vice President of Academic Affairs | Dining Commons, second floor |
| 9 am | Poster Session | Dining Commons, first floor, and Veterans Hall, Ellison Campus Center |
| | 9–9:30 am | All posters |
| | 9:30–10:15 am | Even numbered posters only |
| | 10:15–11 am | Odd numbered posters only |
| | 11–11:30 am | All posters |
| 9:15 am | Paper Sessions (see listings) | |
| 11:30 am | Closing Remarks | Dining Commons, second floor |

Acknowledgments

We thank Dr. Kristin Esterberg, provost and vice president of academic affairs, and her office for sponsorship and financial support. Much of the research presented today was facilitated by the Institutional Review Board (IRB), its chair, Dean Neal DeChillo, and IRB administrator, Megan Means. We are grateful to Amie Marks Goodwin for her help, and we thank the staffs of the dining commons, copy center, media services, campus center, and facilities for all that they do to make this event possible.

Program Committee

| | |
|-------------------------|----------------------------------|
| Terry Lyons (chair) | Psychology |
| Jennifer Jackman | Political Science |
| Elizabeth Maciejewicz | Theater and Speech Communication |
| Christine MacTaylor | Chemistry and Physics |
| Krishna Mallick | Philosophy |
| Deborah Mason-McCaffrey | Chemistry and Physics |
| Ben Miller | Psychology |
| Patrice Miller | Psychology |
| Zaiyong Tang | Marketing and Decision Sciences |

| | | |
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| Session I | MH 241 | Mary DeChillo, Moderator |
| Lisa Mulman, English and Communications, Sponsor | Brett Nolan | <i>The American Woman in Breakfast At Tiffany's</i> |
| Mary DeChillo, Psychology, Sponsor | Phillip Lippens | <i>Veteran and Family Combat Stress: Using Mutual Aid and Psycho-education to Address Issues of Re-entry</i> |
| Christine MacTaylor, Chemistry and Physics, Sponsor | Stephen David Meaney | <i>Effects of Energy Drinks on Aptitude</i> |
| Michael Deere, Philosophy, Sponsor | Julianna Andrews | <i>You aren't funny—a sociological and philosophical study of laughter</i> |
| Annette Chapman-Adisho, History, Sponsor | Ross Martin | <i>The Politics of the Johnson Dictionary</i> |
| Krishna Mallick, Philosophy, Sponsor | Emily Shepherd | <i>Mercury: A Man-made Mess</i> |
| Patricia Johnston, Art + Design, Sponsor | Kristy Jane Harris | <i>Perceptions of Asia in 17th and 18th century European Illustrated Travel Narratives</i> |
| Jen Girgen, Criminal Justice, Sponsor | Jenna Winslow | <i>Legal Responses to Domestic Violence in Massachusetts</i> |
| Session II | MH 240 | Kevin Beckwith, Moderator |
| Kevin Beckwith, Economics, Sponsor | WenJing Cai | <i>The Tragedy of Overfishing</i> |
| | Lai Luo | <i>Rising Sea Levels and Economic Loss in the Maldives</i> |
| | Krystina Creel | <i>Testing the Waters</i> |
| | Timothy Wholley | <i>Overfishing is Costing Us</i> |
| | Dianna Concepcion | <i>The Economic Effects of Jamaica's Coral Reef Degradation</i> |
| | Arjola Mishgjoni | <i>The Economic Effects of Ocean Acidification on U.S. Fisheries</i> |
| | John Sauvageau | <i>The Economic Impact of Sea Level Rise Salem, MA</i> |
| | Guang Yang | <i>An Investigation of China's Rising Housing Prices</i> |

Session III MLK Room

Lucinda Damon-Bach, Moderator

Bethany Jay, History, Sponsor

Connor Litchman

Changing Perceptions: Causes of World War One

Michelle Barrasso

German Participation in the Events of the Holocaust

Karl Rozyn

On to Richmond: McClellan and the Peninsula

Chris Baker

Interpretations of Violence in the Jim Crow South

Lucinda Damon-Bach, English, Sponsor

Roundtable: Early American Influences on Catharine Maria Sedgwick's *A New England Tale*

Danielle Hanscom

Sedgwick and Bradstreet

Colleen Kelly

Catharine Sedgwick and Jonathan Edwards

David Kostos

Sedgwick as Prophesized by Winthrop

Nicole Wakefield

An Early Influence on Sedgwick

Session IV MH 246

Saverio Manago, Moderator

Greg Foudray, Marketing and Decision Science, Sponsor

Katrina Gogolos, Elli Hornbacher, Elizabeth Massari, Billy Mok

Operations Analysis of Plum Island Coffee Roasters

Amanda Ingemi, Zak Leete

Application of Decision Science Models to Business Operations

Savario Manago, Marketing and Decision Science, Sponsor

Patrick Cargill, Patrick Fodor, Puja Lama, Corey Sapienza

Decision Model of Electricity Sourcing for Essex County

Michael Chase, Daniel Nyongo, Aaron Rosenblatt, Brittany Wirta, Rong Zhao

Decision Model of Fuel Sourcing for Essex County

Session V Presidential Room

J.D. Scrimgeour, Moderator

Avi Chomsky, History, Sponsor

Janice M. Oxford

The Spirit of Cuba

J.D. Scrimgeour, English, Sponsor

JD Debski

Performance Poetry

Jackie West

Words to Sounds

Jennifer Selinger

Living Up to My Middle Name

Mike Boroda

USB Noir

Dan Brenton

The Water in My Head

Joshua Cirinna

Raised by Wolves

Session VI MH 238 Raminder Luther, Moderator

Raminder Luther, Accounting and Finance, Sponsor

Yangyang Liu, Jason Miller, Christopher Perry, Matthew Roy, Eric Safner

Are Leveraged Inverse ETFs Right for Individual Investors?

Melissa DiMercurio, Nicholas Grieco, Kevin Pietrini, Michael Walton, Dan Wendt

ERX – Is the Bull Really Raging?

Robin Boucher, Julie Donovan, Jeffrey Laine, Lev Matusevich, Arianna Morelli

An Analysis of Proshares Ultra versus S&P500

Dante Frontiera, William Scholze, Younes Elmarzouki

Leveraged ETFs: Are they Worth the Risk for Individual Investors?

Session VII SB 109 Michele C. Dávila Gonçalves, Moderator

Michele C. Dávila Gonçalves, Foreign Languages, Sponsor

Miriam J. Amaya

Viviendo dentro de un infierno: el impacto en El Salvador de las maras

Kayla M. Jones

Aplicación de métodos tradicionales a la enseñanza moderna: el programa de inmersión en español

Cherie A. Mann

El significado de la predicción del Apocalipsis maya: los mitos acerca de su calendario

Bennett McMillan

Después de Trujillo: la vida de los haitianos en la República Dominicana

Kevin M. O'Connell

Los beneficios de ser una persona bilingüe

Bonny P. Romero

La Hidrocefalia: causas y efectos en República Dominicana y Puerto Rico

Mélida E. Sánchez

La música como herramienta en la enseñanza del español

Francis M. Troche

El impacto de las organizaciones sin fines de lucro en la comunidad de Lawrence

Jacqueline S. Turner

'Speak English, We Are in America!' La alienación y discriminación de los latinos en los EE.UU.

Foteini Ventouris

La narco cultura en México: ¿ejemplos de bandidos o héroes?

POSTERS

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Avian Visitors at Smith Pool, Cat Cove Marine Laboratory, in Winter 2011-2012
Salem State University Making a Positive Difference in Liberia

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Fire-suppression of longleaf pines as contributor to the decline of the critically endangered dusky gopher frog, *Rana sevosa*

112 **Timothy Kasprzyk**

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Is it Heart Disease that is Killing Americans or is it the American lifestyle?

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Determining the Optimal Concentration of YFP Plasmid Required in Electroporation of CFBE Cells to Produce Optimal Amounts of Transfected Cells for Use in High-Throughput Screening Assays.

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| 106 | Michelle Boucher | How Much Caffeine is in That Drink? |
| 85 | Michael Dullen | It's a Bug's Life |
| 36 | Travis Ellyson | Testing Metals in Various Brands of Tuna |
| 102 | Trisha Gonsiorowski | Comparison of Metals in Various Brands of Bottled Waters |
| 37 | Joseph LaPointe | Quantification of Impurities in Cooking Oils Using DART |
| 103 | Stephen Meaney | Quantification of Sugar and Caffeine in Drinks and Their Effects on Academic Performance |
| 19 | Christopher James Meneades | Design of a Thermoelectric Generator |
| 91 | Irida Mustafa | Study of pH Range and Efficacy of HIV Immunoassay Tests |
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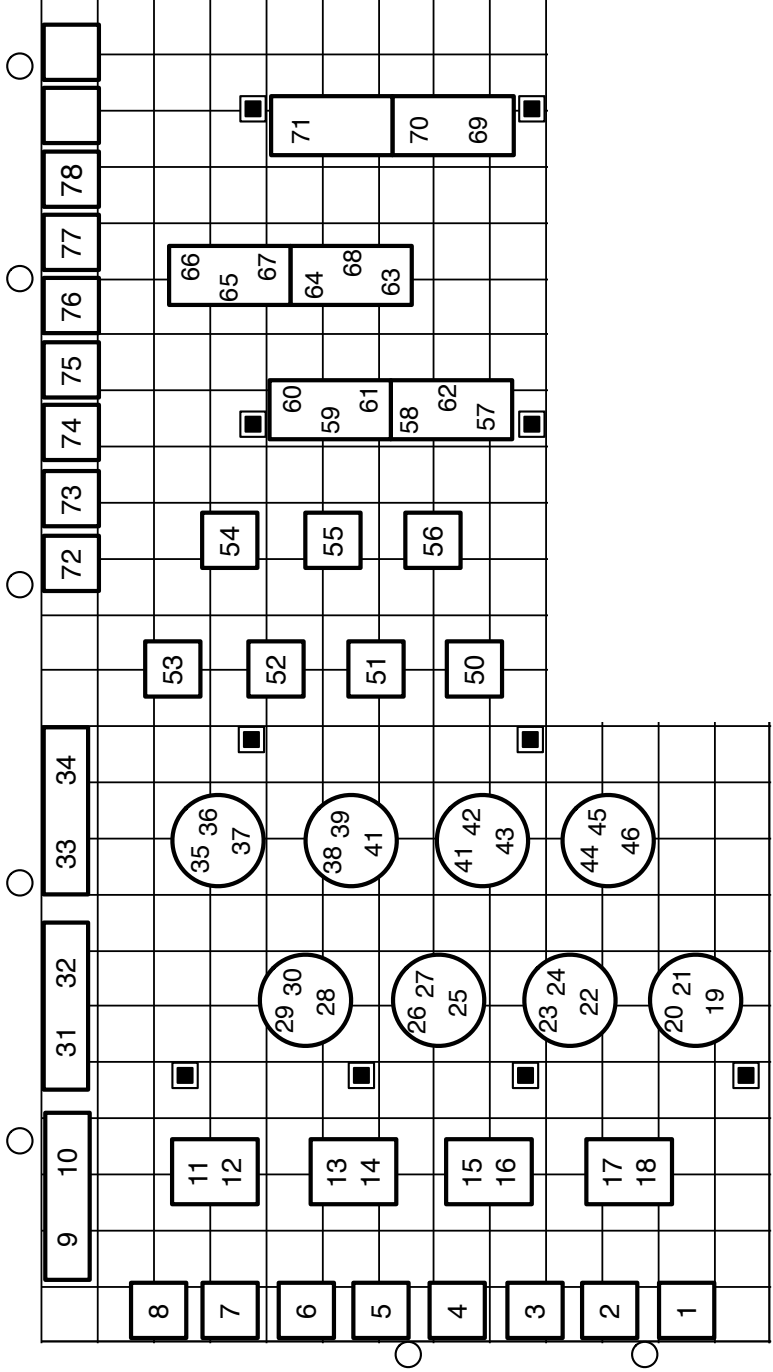
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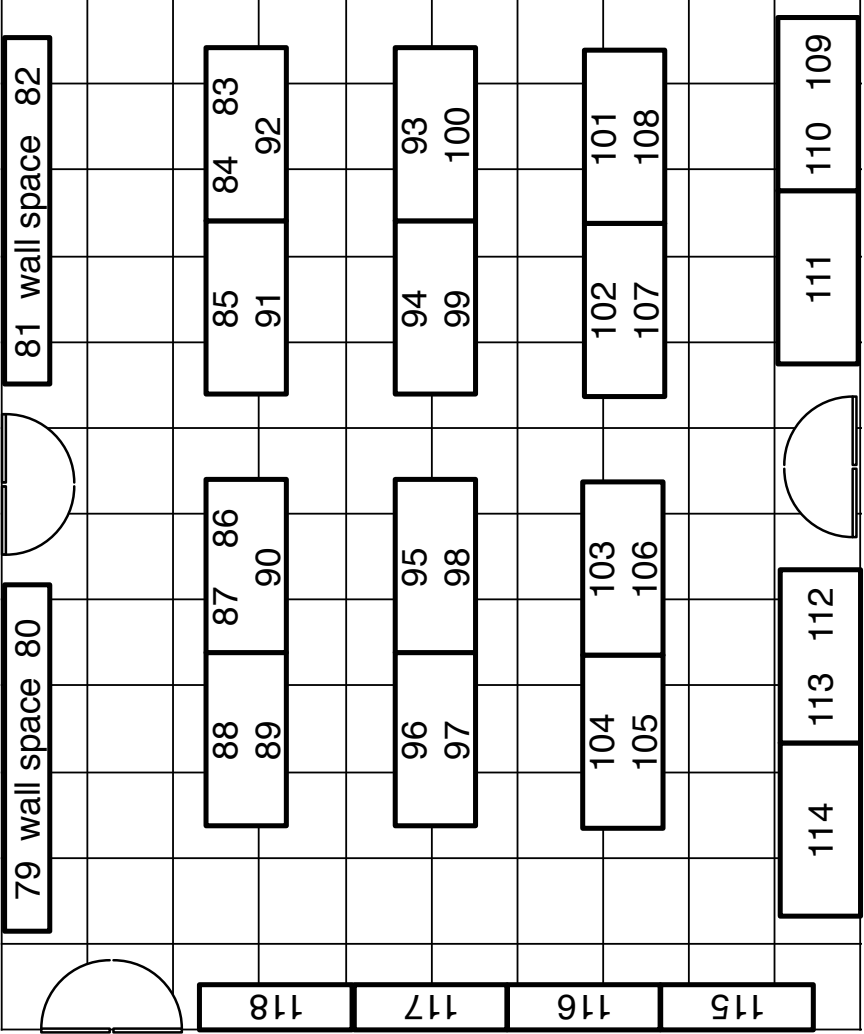
Costuming The Ghost of Troy

Lower Commons



Veteran's Hall

**Stairwell to
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