

Students and Faculty Working Together Tenth Anniversary Saturday, April 16, 2011





Celebrating Collaborations: Students and Faculty Working Together Saturday, April 16, 2011 8 a.m.-6 p.m.

Smith College's annual showcase of student research and performance highlights students' intellectual achievements and collaborative efforts with faculty in a variety of departmental, program and interdisciplinary projects. This is

# a celebration of liberal arts education.

It is our hope that all members of the Smith community and many guests will partake in the educational richness of this day, recognizing that these sessions are a mere sampling of the exciting student-faculty collaborations that unfold on our campus every day.

# Program



Collaborations Across Borders: denotes presentations with an international or intercultural focus in the spirit of Smith's mission as a global college

## 8–10:30 a.m. Morning Refreshments Science Poster Session

#### **Costume Studies**

This exhibit will be available for viewing outside of the Hallie Flanagan Studio Theatre in the Mendenhall Center for the Performing Arts all day.

#### Iulie Bomba '11

Shells of Culture: Outerwear and Art of the 20th Century; exhibit deriving from special studies with Catherine Smith, professor of theatre

#### **Dance**

There will be several dances performed around campus intermittently throughout the day.

Janice Estrada '11, Susana Rodriguez '12J, Sarah Lindblom '11, Drew Wagner '11, Mika Brinson '11, Ashley Brickhouse '11, Caroline Carlisle '11, Amy Parks '11, IdaKate Codington AC '11 and Phoebe Mayor '11 @

Resilient Coalescence: Senior Thesis Collaborations Across Campus; dance performances deriving from thesis choreography projects with Susan Waltner, professor of dance

# 8:30–10:30 a.m.

Science poster displays are numbered to correspond with the numbers below.

#### Astia Roper-Batker '11 1

The Expression of Mitogen-Activated Protein Kinases Throughout Murine C2C12 Myogenesis; science poster session deriving from thesis with Stylianos Scordilis, professor of biological sciences

#### Germaine Yeku Nendah '11 2

Does a Fever, the Body's Immune Response, Alter Gene Expression in *Escherichia coli*?; science poster session deriving from thesis with Christine White-Ziegler, professor of biological sciences

#### Adeola Awodele '11 and Iju Shakya '13 3 @

Characterization of the Promoter of the Brugia malayi tpx-2 Protein Gene; science poster session deriving from thesis with Steven Williams, Gates Professor of Biological Sciences

#### Rachael Stein '12 and Lidiya Denu '13 4

Characterizing the Neurogenic and Regenerative Functions of Astrologia During Zebrafish Brain Development; science poster session deriving from special studies with Michael Barresi, assistant professor of biological sciences

#### Kathryn Aloisio '13 5

Null Models for Northeastern Vegetation Plots; science poster session deriving from special studies with Jesse Bellemare, assistant professor of biological sciences, and Nicholas Horton, associate professor of mathematics and statistics

#### Lois Bangiolo '11 6

The Ants Go Marching On: Evidence for the Convergent Evolution of Ant Seed Dispersal in Temperate Forest Plants; science poster session deriving from thesis with Jesse Bellemare, assistant professor of biological sciences

#### Lois Bangiolo '11 and Jenna Zukswert '13 7

The Effect of Eastern Hemlock (*Tsuga canadensis*) on Soil Characteristics; science poster session deriving from classwork with Jesse Bellemare, assistant professor of biological sciences, Katherine Halvorsen, professor of mathematics and statistics, and Pamela Matheson, laboratory instructor in mathematics and statistics

#### Angela Oliverio '12, Kate Eisen AMH '12 and Linnea Yeazel '13 8

Seeds on the Moove: Dispersal of Exotic Plant Seeds By Cow, Deer and Bear Scat at the MacLeish Field Station, Whately, Mass.; science poster session deriving from classwork with Jesse Bellemare, assistant professor of biological sciences, Katherine Halvorsen, professor of mathematics and statistics, and Pamela Matheson, laboratory instructor in mathematics and statistics

#### A. J. Campbell '11 and Sarah Lim '12J 9

Monarchs and Milkweeds: Interspecies Interactions; science poster session deriving from classwork with Jesse Bellemare, assistant professor of biological sciences, and Katherine Halvorsen, professor of mathematics and statistics

#### Emily Barbour '14 and Katherine Dymek '14 10

Leave No Plant Behind: Horticultural Insights to the Feasibility of Assisted Colonization; science poster session deriving from STRIDE research with Jesse Bellemare, assistant professor of biological sciences

### Rebecca Heath '11, Brook Frye AC and Laura Sheys '13, 11

The Effect of Soil pH on Fern Growth in a Hemlock Forest; science poster session deriving from classwork with Jesse Bellemare, assistant professor of biological sciences, Katherine Halvorsen, professor of mathematics and statistics, and Pamela Matheson, laboratory instructor in mathematics and statistics

#### La'Kesha Francis '12 and Rebekah Garder AC 12

Goldenrod Species' Plant Health May Be Related to Gall Formation; science poster session deriving from classwork with Jesse Bellemare, assistant professor of biological sciences, Katherine Halvorsen, professor of mathematics and statistics, and Pamela Matheson, laboratory instructor in mathematics and statistics

#### Ella Hartenian '11, Gabriela Kubik '11, and Sara Sirois '11 13

Edaphic Effects of Eastern Hemlock (*Tsuga canadensis*); science poster session deriving from classwork with Jesse Bellemare, assistant professor of biological sciences, and Katherine Halvorsen, professor of mathematics and statistics

#### Ella Hartenian '11 14

Are Cities Bad for Your Health?; science poster session deriving from thesis with Robert Dorit, associate professor of biological sciences, and Nicholas Horton, associate professor of mathematics and statistics

#### Sonya Bhatia '13 15 @

Changes in Reproduction Patterns and Body Mass in Canidae Over 20 Years; science poster session deriving from STRIDE research with Virginia Hayssen, professor of biological sciences

#### Lily Maynard '11 16

Making Sense of Environmental Enrichment: The Behavioral Responses of Captive African Cheetahs (*Acinonyx jubatus*) to Ecologically Relevant Scents; science poster session deriving from thesis with Virginia Hayssen, professor of biological sciences

#### Maggie Sawdy '13 17

Reproduction in Leporidae and Ochotonidae; science poster session deriving from STRIDE research with Virginia Hayssen, professor of biological sciences

#### Samantha Torquato '11 18

Sequencing LDH in the Red-Spotted and Rough-Skinned Newts; science poster session deriving from thesis with Robert Merritt, professor of biological sciences, and Laura A. Katz, Elsie Damon Simonds Professor of Biological Sciences

#### Emily Ulrich '11 and Esther Hong '14 19

Effects of Deepwater Horizon Crude Oil on Marine Life; science poster session deriving from special studies and STRIDE research with Paulette Peckol, Louise C. Harrington Professor of Biological Sciences

#### Grace Anderson '12 20

Marine Ecology and EHS AP Environmental Science: Field Work at Cape Cod, CEEDS Leadership Initiative; science poster session deriving from classwork with Paulette Peckol, Louise C. Harrington Professor of Biological Sciences, Elizabeth Callaghan, teacher, Easthampton High School, and Graham Kent, senior laboratory instructor in biological sciences

#### Trang Vo '13 and Sarah Tucker '13 21

Diversity of Stream Invertebrates in the Jimmy Nolan Brook; science poster session deriving from STRIDE research with L. David Smith, professor of biological sciences

#### Sarah Tucker '13 and Olivia Cap '12 22

A Biogeographic Comparison of Claw Strength and Cuticle Thickness in the Invasive Green Crab *Carcinus maenas*; science poster session deriving from SURF and AEMES research with L. David Smith, professor of biological sciences

#### Samantha Hinds '12 23

*E. coli* Adapts to Changes in Temperature by Regulating Gene Expression; science poster session deriving from special studies with Christine White-Ziegler, professor of biological sciences

#### Pamela Cote GR 24

The Short-Term Adaptation of K-12, Uropathogenic and Emteropathogenic *Escherichia coli* to Human Body Temperature; science poster session deriving from thesis with Christine White-Ziegler, professor of biological sciences, and Steven Williams, Gates Professor of Biological Sciences

#### Jiyeon Kim '13 and Da Yae Lee '14 25

Temperature Effects on Gene Expression in *Escherichia coli;* science poster session deriving from STRIDE research with Christine White-Ziegler, professor of biological sciences

#### Nina Waldron '11 26

Clinical Research at Baystate Hospital: ROMICAT II, Project Crash, Cough and Infrared Thermography Detection of Soft Tissue Infection; science poster session deriving from special studies with Christine White-Ziegler, professor of biological sciences

#### Sonu Shrestha '12 27

What Temperature Ranges Program a Given Thermoregulatory Response in *Escherichia coli* K-12?; science poster session deriving from special studies with Christine White-Ziegler, professor of biological sciences

#### Hiba Jamil '11 and Saira Huq '12 28 @

Detecting Deadly Parasites via One Quick Test; science poster session deriving from special studies with Steven Williams, Gates Professor of Biological Sciences

#### Robin Welsh '11 29 @

Hunting for a Vaccine: ImmunoInformatics and the Filarial Parasite *Brugia malayi*; science poster session deriving from thesis with Steven Williams, Gates Professor of Biological Sciences

#### Anna Valentine '11 and Lexiaochuan Wen '12 30

Clay-Catalyzed Natural Product Synthesis: Investigation of an Environmentally Friendly Synthesis of Vanillin Using Montmorillonite Clay; science poster session deriving from thesis and special studies with Lâle Burk, senior lecturer in chemistry

#### Risha Sinha '14 and Aaline Ahmad '14 31

Analysis of Fluorinated Anesthetics Using Laser Spectroscopy; science poster session deriving from AEMES research with Shizuka Hsieh, associate professor of chemistry

#### Joohyun Park '11 32

Structural Determination of DNA Lesion Via 2-D NMR; science poster session deriving from thesis with Elizabeth Jamieson, associate professor of chemistry

#### Carmen Say '11 33

Slimy Chemistry: Analyzing the Effects of Surface Topography and Surface Chemistry on Biofilm Adhesion; science poster session deriving from thesis with Kate Queeney, associate professor of chemistry, and Robert Dorit, associate professor of biological sciences

#### Jasmine Wallas '11 34

Determining the Governing Forces in Alginate Adsorption; science poster session deriving from special studies with Kate Queeney, associate professor of chemistry

#### Cristina Santarossa '11 35

FTIR in situ Investigation of Biofilm Adsorption; science poster session deriving from thesis with Kate Queeney, associate professor of chemistry

Keturah Edwards '11, Erena Farah Ousman '11, Meredith Hoddinott '12 and Sarah Rothstein '12 36 Synthesis of Novel Cationic Diels-Alder Dienophile Stabilized by Adjacent Cobalt Complexed Alkynes; science poster session deriving from special studies with Kevin Shea, associate professor of chemistry

## Sarah Perlmutter '11, Catriona Blunt '12 and Aubrey Graham '12 37

Development of a Tandem Diels-Alder/Pauson-Khand Strategy for the Synthesis of Tetracycles; science poster session deriving from thesis with Kevin Shea, associate professor of chemistry

## Wenxin Cai '12, Colby Loew '13 and Madihah Salim '13 38

Using Liposomes to Characterize the Potential Cation Transport Properties of Cyclic Peptide Dimers; science poster session deriving from special studies with Cristina Suarez, associate professor of chemistry

#### Angela Tosca AC '11 39

The Limits of Computation: What Computers Can and Cannot Do; science poster session deriving from thesis with Joseph O'Rourke, Olin Professor of Computer Science

#### Yang Li '11 40

Fixing Gaps in Protein Structural Data Using Inverse Kinematics; science poster session deriving from thesis with

Ileana Streinu, Charles N. Clark Professor of Computer Science

## Claire Ma '13, Sonia Brown '14, Helen Queenan '14 and Jane Turner '13 41

Beach Creatures in the Linkage Lab; science poster session deriving from STRIDE and AEMES research with Ileana Streinu, Charles N. Clark Professor of Computer Science

## Betsy Cowdery GR, Lindsey Gregor '12 and Aigerim Karabekova '12 42

Geo-Tracking Smith; science poster session deriving from special studies and classwork with Dominique Thiébaut, associate professor of computer science

#### Elizabeth Do '11 43 @

Analytics and Art; science poster session deriving from thesis with Dominique Thiébaut, associate professor of computer science, and Eitan Mendelowitz, assistant professor of computer science

#### Lindsay Holle '11 44

The Implications of Emerging Energy Policies on the New York State Electric Power Grid; science poster session deriving from thesis with Judith Cardell, Clare Boothe Luce Associate Professor of Computer Engineering

#### Caitlin Spence '11 45

Investigating Throughfall Spatial Variability at the Mac-Leish Field Station; science poster session deriving from thesis with Andrew Guswa, associate professor of engineering

#### Sage Brown '13 and Sarah Pedicini '11 46

Documenting Design Through Sketching; science poster session deriving from special studies with Susannah Howe, director of the Design Clinic and lecturer in engineering

#### Taylor Beall '13, Zachary Clemente HC '12, Phoebe DeGroot '13, Elizabeth Donovan '13, Diana Fiumefreddo '11, Lara Hamsher '12, Anastasia Karaiosifoglou MHC '12, Linda Son '13, Yamin Tun '14 and Ruby Zucker '12 47

Applied Design and Prototyping in IDP 250; science poster session deriving from classwork with Susannah Howe, director of the Design Clinic and lecturer in engineering, and Eric Jensen, manager of the Center for Design and Fabrication

#### Chelsea Andrews '11 and Iris González '11 48

Design of an Automated, Rapid Tissue Processing System; science poster session deriving from classwork in Engineering Design Clinic sponsored by Energy Beam Sciences with Susannah Howe, director of the Design Clinic and lecturer in engineering, and collaborators at the University of Connecticut

## Leah Flake '11, Amna Sarfraz '11 and Caitlin Spence '11 49

System Designed to Integrate Earth Science Data and Forestry Models for Improved Ecosystem and Carbon Management; science poster session deriving from classwork in Engineering Design Clinic sponsored by NASA Goddard Space Flight Center with Susannah Howe, director of the Design Clinic and lecturer in engineering, and Donna Riley, associate professor of engineering

## Elizabeth Isenstein '11, Salma Mehter '11 and Madeleine Smith '11 50

Design of a Stormwater Runoff Treatment System and Development of a Stormwater Treatment Guide; science poster session deriving from classwork in Engineering Design Clinic sponsored by the Natural Resources Conservation Service with Susannah Howe, director of the Design Clinic and lecturer in engineering, and Cloelle Sausville-Giddings, lecturer in engineering

#### Darcy Dwyer '11 and Lindsay Holle '11 51

Evaluation and Design for Renewable Energy at the Northampton Landfill; science poster session deriving from classwork in Engineering Design Clinic sponsored by the Northampton Department of Public Works with Susannah Howe, director of the Design Clinic and lecturer in engineering, and Cloelle Sausville-Giddings, lecturer in engineering

#### Katherine MacKenzie '11, Courtney Murphy '11, Sarah Pedicini '11 and Salomé Stulberg '11 52

Design and Development of a Submersible, Autonomous, Rn-222 Survey System; science poster session deriving from classwork in Engineering Design Clinic sponsored by the Woods Hole Oceanographic Institute with Susannah Howe, director of the Design Clinic and lecturer in engineering, and Donna Riley, associate professor of engineering

Jayna Shea '12 and Mary Clark McGrath '13 53
The Effect of Myostatin Deficiency on Murine Tendon
Material Behavior; science poster session deriving from
summer research and special studies with Borjana Mikic,
Rosemary Bradford Hewlett 1940 Professor (Engineering)

Heidi Waugh '12J and Sophie Mettler-Grove '13 54 Gendered Boundaries in the Discipline of Engineering; science poster session deriving from special studies with Donna Riley, associate professor of engineering

Victoria Henry '13J and Genevieve de Mijolla '13 55 ® Engineering for Education: A Library for Teenage Mothers in Peru; science poster session deriving from special studies with Paul Voss, assistant professor of engineering

#### Sarah Weber '13 56

Optimizing Flight With a Variable Pitch Propeller; science poster session deriving from special studies with Paul Voss, assistant professor of engineering

## Marie Wallace '11, Emily Ulrich '11, Lily Maynard '11 and Caitlin Kennedy '11 57 ❸

Coral Reef Ed-Ventures; science poster session deriving from summer program with H. Allen Curran, William R. Kenan Jr. Professor Emeritus of Geosciences, Susan Etheredge, professor in education and child study, and Paulette Peckol, Louise C. Harrington Professor of Biological Sciences

#### Christina Goethel '13 58

Walrus: An Indicator Species of a Changing Arctic Environment; science poster session deriving from STRIDE research with Thomas Litwin, director of the Clark Science Center and adjunct associate professor of biological sciences

#### Kelsea Thornton '11 59

Geochemical Groundwater Analysis of Horizontal Hydraulic Fracturing in the Marcellus Shale Bed—Fiddle Lake, Penn.; science poster session deriving from special studies with Amy Rhodes, associate professor of geosciences

## Sarah Hussain '13, Abby Dornbusch '13 and Laurel Bryggman '13 60

Effects of Snow Disposal on Aquatic Ecosystems: Case Study of the Mill River in Northampton, Mass.; science poster session deriving from classwork with Michael Vorwerk, lecturer in environmental science and policy

#### Caron Dewey AC 61

Correlation of Stream Order and Invasive Species Distribution Mapping of *Polygonatum sp.* Along the Mill River; science poster session deriving from classwork with Michael Vorwerk, lecturer in environmental science and policy

#### Victoria Helms '12 62

Invading Mount Tom: The Correlation Between the Hemlock Woolly Adelgid and Elevation; science poster session deriving from classwork with Michael Vorwerk, lecturer in environmental science and policy

#### 

We Eat Wheat: An Examination of the Energy and Resources Used in Wheat Production; science poster session deriving from classwork with Michael Vorwerk, lecturer in environmental science and policy

#### Elizabeth Esposito '13 64

Going Native: Strategies for Naturalizing Green Space on the Smith College Campus; science poster session deriving from work with Michael Vorwerk, lecturer in environmental science and policy

#### Anna Mokros '13 65

Crude Oil and Vinegar: The Energy Consumption Behind Your Salad; science poster session deriving from classwork with Michael Vorwerk, lecturer in environmental science and policy

#### Sophie Mettler-Grove '13 66

Environmental Effects of Meat Production; science poster session deriving from classwork with Michael Vorwerk, lecturer in environmental science and policy

#### Estefania Cervantes '13 67 @

Population Growth and the Effects on Clean Water; science poster session deriving from classwork with Michael Vorwerk, lecturer in environmental science and policy

Christina Goethel '13 and Margaret Snelgrove '13 68 The Effects of the Deepwater Horizon Oil Spill on Oxygen Dynamics; science poster session deriving from classwork with Michael Vorwerk, lecturer in environmental science and policy

#### Meghan Smith '12 69

Heating Our Dorms in Winter: The Effect of Personal Heat Manipulation; science poster session deriving from classwork with Michael Vorwerk, lecturer in environmental science and policy

#### Elizabeth Isenstein '11 70

A Multivariable Model Correlating Stormwater Contamination and Land Use; science poster session deriving from classwork with Michael Vorwerk, lecturer in environmental science and policy

#### Katlin Okamoto GR 71

Positive Youth Development Through Coaching: Achieving Positive Experiences and Happiness; science poster session deriving from thesis with Donald Siegel, professor of exercise and sport studies, and Samuel Intrator, professor of education and child study

#### Anna Baeth GR 72

The Voice Behind the Whistle: Storytelling in Coaching; science poster session deriving from thesis with Jane Stangl, lecturer in exercise and sport studies

#### Jennifer Axler '11 73

Forming Giant Garnets; science poster session deriving from thesis with John Brady, Mary Elizabeth Moses Professor of Geosciences

## Jennifer Axler '11, Naomi Barshi '12, Sara Gonzalez '12 and Alianora Walker '11 74

Shallow Geophysical Exploration South of Northampton Sanitary Landfill; science poster session deriving from classwork with H. Robert Burger, Achilles Professor of Geosciences

#### Lily Seidman '11 75

Origin of the Enigmatic Breccia and Folds in the Turners Falls Formation in Western Massachusetts; science poster session deriving from thesis with H. Robert Burger, Achilles Professor of Geosciences

#### Sarah Brisson '14 76

Making Cracks and Chips in Mud-Free Sand and Glass Beads; science poster session deriving from STRIDE research with Bosiljka Glumac, associate professor of geosciences

#### Naomi Barshi '12 77

Shifting Sands: Storm Impacts on Plum Island, Massachusetts; science poster session deriving from special studies with Robert Newton, professor of geosciences

#### Monica Rolls '12 78

Drilling Predation Rates at Duck Creek Branch, Cape Cod, Massachusetts; science poster session deriving from classwork with Sara Pruss, assistant professor of geosciences

#### Katie Castagno '12 79 @

Geochemical Analysis of the Cambro-Ordovician Cow Head Group Carbonates in Western Newfoundland; science poster session deriving from special studies with Sara Pruss, assistant professor of geosciences

#### Lilly Dalton '12 80 @

A Microfossil Assemblage From Post-Sturtian Cap Carbonates of the Rasthof Formation, Northern Namibia; science poster session deriving from special studies and AEMES research with Sara Pruss, assistant professor of geosciences

#### Ellen Maley '11 81

Characterizing Trace Metal Concentrations in Surface Soils, Boulder County, Colorado; science poster session deriving from thesis with Amy Rhodes, associate professor of geosciences

#### Kassia Rudd '11 82

Developing a Method for Chronicling Historic Landscape Change: A Case Study of the Mill River Watershed; science poster session deriving from special studies with Reid Bertone-Johnson, lecturer in landscape studies

#### Belen Cruz '14, Caitlin Hunter '13, and Joo Yeon Shin '13 83

Back to the Future: Reconstructing Plant Meristem Patterns; science poster session deriving from STRIDE, AEMES, and student research with Christophe Golé, professor of mathematics and statistics, and Denise Lello, lecturer in biological sciences

#### Peace Young '12, Xizhu Zhao '12 and Kasama Euchukanonchai '12 84

Case Study: 2010 BP Oil Spill; science poster session deriving from classwork with Nicholas Horton, associate professor of mathematics and statistics

#### Ma Thida '11 85

Brain Signal (MEG) Analysis Using Statistical Tools; science poster session deriving from summer research with Nicholas Horton, associate professor of mathematics and statistics

## Huong Giang Nguyen '13, Linh Dinh '13 and Wenyue Yang '12 86

Novel Method of Analysis for DPOAE Magnitude and Phase; science poster session deriving from special studies with Nicholas Horton, associate professor of mathematics and statistics

#### Brittany Edens '13 87

Distinct Mechanism of Slit-Robo Attraction and Repulsion Mediate the Guidance of Astroglial Cells and Commissural Axons in *Zebrafish diencephalon*; science poster session deriving from AEMES research with Michael Barresi, assistant professor of biological sciences

## Shikha Goel '11, Harrison Hunter NHS, Anjana Rao '13 and Luvana Chowdhury '13 88

GABAA Receptor Modulation by Endozepines: A Patch-Clamp Electrophysiological Study; science poster session deriving from thesis with Adam Hall, associate professor of biological sciences

#### Alexis Ziemba '12 and Emily Flynn '14 89

Investigation of the Molecular Mechanism of Anesthetic Preconditioning in Microglia; science poster session deriving from special studies and STRIDE research with Adam Hall, associate professor of biological sciences, and Scott Edmands, postdoctoral research instructor in biological sciences

Belinda Nhundu '13 and Hajnalka Nyitrai '11J 90 Volatile Anesthetic Sevoflurane Affects Morphology of Murine Cortical Neurons In Vivo Inducing Neurite Retraction; science poster session deriving from special studies with Adam Hall, associate professor of biological sciences

#### Christina Johns '12, Hope Wilson '13, Rachael Gainer '13, Grace McKay-Corkum '14 and Lisa Friedman '14J 91

The Effects of Anxiety and Stress on Learning and Memory in Mice; science poster session deriving from classwork with Mary Harrington, Tippit Professor in the Life Sciences (Psychology)

#### Awa Ndiaye '11, Bushra Anis '13 and Haja Fofana '11 92

Chronic Interleukin 1-B: An Animal Model of Chronic Fatigue; science poster session deriving from special studies with Mary Harrington, Tippit Professor in the Life Sciences (Psychology)

## Anjana Rao '13, Bokang Rabasha '13, Bushra Anis '13, Sophia Demuynck '13 and Sophia Gambuto '13J 93

The Barrel Cortex of the Mouse; science poster session deriving from classwork with Mary Harrington, Tippit Professor in the Life Sciences (Psychology)

#### Mallery Olsen '11 94

Is Jet Lag Stressful? The Relationships Between Circadian Disruption and the Stress Response; science poster session deriving from thesis with Mary Harrington, Tippit Professor in the Life Sciences (Psychology)

Bryce Bludevich '11 and Katharine Wright '12 95 Genotyping of Per1-Venus Transgenic Mice as a Gene Reporter of Period 1; science poster session deriving from special studies with Mary Harrington, Tippit Professor in the Life Sciences (Psychology)

#### Kayla Correia '11 and Gloria Kim '13 96

Jet Lag—Induced Internal Desynchronization Is Associated With Deficits in Adult Neurogenesis in Mouse Hippocampus; science poster session deriving from thesis with Mary Harrington, Tippit Professor in the Life Sciences (Psychology)

Saira Huq '12, Gloria Kim '13, Alyssa Bobe AC, Abigail McElroy '13 and Emma Cooke '14 97 Stress and Motor Control; science poster session deriving from classwork with Mary Harrington, Tippit Professor in the Life Sciences (Psychology)

#### Insung Song '11 98

Effect of Age on Circadian Rhythm; science poster session deriving from special studies with Mary Harrington, Tippit Professor in the Life Sciences (Psychology)

#### Martha Luitje AC 99

Gap Junctions and Circadian Coupling in the Liver; science poster session deriving from thesis with Mary Harrington, Tippit Professor in the Life Sciences (Psychology)

#### Vanessa Raditz '12, Luvana Chowdhury '13, Fleurette Joseph '12, Evelina Federyuk '13 and Elizabeth Zampino '13 100

The Effect of Multiple Light Advances on Anxiety and Learning in Male and Female BALB/cJ Mice; science poster session deriving from classwork with Mary Harrington, Tippit Professor in the Life Sciences (Psychology)

#### Laura Leung '14 101

A Century of Physics at Smith College; science poster session deriving from AEMES research with Malgorzata Pfabé, Sophia Smith Professor of Physics

#### Emily Starr-Phillips AC '12 102

Effects of Naturally-Occurring Variations in Early-Life Maternal Care on Adult Behavior, Anxiety and Health; science poster session deriving from special studies with Annaliese Beery, assistant professor of psychology

#### Danielle Kim '11 103

Self-Stereotyping in Educational Environments: The Effects of Academic Labeling and Group Entitativity on Student Achievement; science poster session deriving from thesis with Fletcher Blanchard, professor of psychology

#### Catherine Dodson '11 104

Examining the Cognitive and Social Responses to Intergroup Attack; science poster session deriving from thesis with Fletcher Blanchard, professor of psychology

#### Emily Shawruss '11, Carina Ahuja '12, Hannah Kistler '13 and Meg Collins '14 105

"What Do You Think About That?": The Impact of Mother's Vocabulary on Child's Language Development; science poster session deriving from STRIDE research and NIH research grant with Jill de Villiers, professor of philosophy and Sophia and Austin Smith Professor of Psychology, and Peter de Villiers, Sophia and Austin Smith Professor of Psychology

## Alyssa Shaw '13, Margaret Kilkelly '12, Jackie Baron '13 and Liza Rosenfield '12 106

Speak Your Mind: The Relationship Between Teachers' Language and Preschoolers' Linguistic, Cognitive and Social Development; science poster session deriving from STRIDE research and NIH research grant with Peter de Villiers, Sophia and Austin Smith Professor of Psychology, and Jill de Villiers, professor of philosophy and Sophia and Austin Smith Professor of Psychology

#### Zella Henderson '14 107

Does Language Need Thought?: Insights From Eyetracking; science poster session deriving from STRIDE research with Jill de Villiers, professor of philosophy and Sophia and Austin Smith Professor of Psychology

## Ellen Harrington '13, Elizabeth Gadilauskas '12 and Sarah Kay '13 108

Storybooks Reveal Early Language Understanding; science poster session deriving from STRIDE research with Jill de Villiers, professor of philosophy and Sophia and Austin Smith Professor of Psychology

#### Ann Nordmeyer '11 109

To Be or Not To Be: Examining the Role of Language in a Concept of Negation; science poster session deriving from thesis with Jill de Villiers, professor of philosophy and Sophia and Austin Smith Professor of Psychology

#### Cora Picone '11 110 @

Language and Literacy in Low-Income African American and White Children: The School Readiness Research Consortium Project; science poster session deriving from thesis with Peter de Villiers, Sophia and Austin Smith Professor of Psychology

#### Caitlin Carr '11 111

Who, What, Where, When, Why? And How. The Use of Language Software to Improve Deaf Students' Language Acquisition; science poster session deriving from special studies with Peter de Villiers, Sophia and Austin Smith Professor of Psychology

## Christina Cheung '11, Rosie Alig '14 and Vanessa Raditz '12 112

Problems with Non-Literal Language in Children and Adolescents With Autism and Asperger Syndrome; science poster session deriving from STRIDE research and NIH research grant with Peter de Villiers, Sophia and Austin Smith Professor of Psychology

#### Markeisha Grant '11 113 🚳

Language and Literacy in Bilingual Hispanic Children: The School Readiness Research Consortium Project; science poster session deriving from thesis with Peter de Villiers, Sophia and Austin Smith Professor of Psychology

#### Julie Colatrella '12, Afton Hencky '11, Elizabeth Mincer '13 and Olivia D'Angelo '11 114

Validating a New Measure of Feminist Consciousness; science poster session deriving from classwork with Lauren Duncan, associate professor of psychology

#### Catherine Dodson '11, Sarah Dunn '11, Kelsey Hoffman '12 and Ilana Teitelman '12 115

Defining Feminist Consciousness: Validating a New Measure; science poster session deriving from classwork with Lauren Duncan, associate professor of psychology

#### Veselina Hristova '11 116

Perfectionism and Obsessive-Compulsive Symptoms; science poster session deriving from classwork with Randy Frost, Harold Edward Israel and Elsa Siipola Professor of Psychology

#### Katherine Russell '11 and Nicole Leyva AC 117

The Effects of a Forced Schedule on Circadian Rhythms: An Animal Model; science poster session deriving from classwork with Mary Harrington, Tippit Professor in the Life Sciences (Psychology)

#### Lena Zairis '12 118

Therapeutic Farming: An Alternative Approach to the Recovery Process; science poster session deriving from special studies with Beth Powell, lecturer in psychology

Christina Nelson '14 and Emma Coleman '14 119
Personal Drawing Style: A Longitudinal Study of Artistic Stability, Variation and Resourcefulness in Children's Drawings; science poster session deriving from STRIDE research with Peter Pufall, professor emeritus of psychology

#### Kelsey Swensen '13 120

The Interactive Family Tree: An Exploration of Hereditary Patterns of Mental Illness in Virginia Woolf's Family; science poster session deriving from STRIDE research with Michele Wick, lecturer in psychology

## 9:30 a.m.–noon Archives Concentration Research Capstone Projects

This session of presentations, deriving from classwork with Susan Van Dyne, professor of the study of women and gender, will be held in Seelye 110.

#### Stefania Gawron '11

Making History Public: LGBT Activism at Smith and Nationally

#### Olivia Mandica-Hart '11

Coming Out: Unearthing Queer Histories From Smith's Archives

#### Allison Pilatsky '12

Taking the Archives Public: Feminist Theology Materials in the Classroom

#### Joanna Johnson '12

A Silent Man No More: Bringing Calvin Coolidge Out of Northampton's Archives

#### Anna Eisen '11

Niche Narratives: Student Life at Smith Through Scrapbooks

#### Gwen Gethner '11

The Ladies of Grécourt: Smith and the First World War

#### Alix Korn '11

Body to Body: A Selected Archive of MFA Dance History at Smith

#### Lori E. Harris AC '11 @

Maintaining a Culture of Liberal Conservatism: The 1970 Smith Student Strike!

#### Hilary Buxton '11 @

Revealing the Obscure in American Journalism: Women War Correspondents and the German Fraternization Problem

#### Kayla Ginsburg '13 and Margaret Barthel '13 Lost in the Archives: A Two-Year Adventure

Olivia Mandica-Hart '11 and Amanda Lineweber '11 "This Revolution Has Been Archived": The Creation of a Queer Archival Exhibit

## 10:45 a.m.–noon Concurrent Sessions

## Museums Concentration Research Capstone Projects

This session of PowerPoint presentations, deriving from classwork with Jessica Nicoll, director and Louise Ines Doyle 1934 Chief Curator of the Museum of Art, will be beld in Seelye 101.

#### Hannah Pitt '11 🗐

The Revitalization of Museums: Exploring How the Art of Americas Wing at the Museum of Fine Arts Boston Reconstructs Museum Traditions and the Visitor Experience

#### Ashley Knowles '11 @

An Even Larger Noise: The Quest for Relevancy, Heritage and Participation at the Pompey Museum of the Bahamas

#### Hannah M. Griggs '11 @

Creating Adult Programming for Underserved Audiences: Soldier ON at SCMA to Enrich Community Outreach and Smith Student Engagement

#### Ceilidh C. Galloway-Kane '11 @

Experiencing Plants Through Art: An Investigation of the Importance of Early Childhood Art Education and Alternative Interdisciplinary Teaching Methods

#### Rosaura Sofia Sanchez '12J @

Teaching Visual Literacies in Museum and Commercial Spheres

#### **Theatre and Computer Science**

Mia Terkowitz '11, Alexandra Futty HC, Samuel Blake Congdon HC, Kellye Rowland AC, Emma Jimerson '13J, Meaghan Lydon '12, Emily Wiest '12J, Amy Yun '11, Samia Mousa '11 and Amy Yee '11 Hang Gliding

Seelye 107; theatrical performance deriving from special studies with Leonard Berkman, Anne Hesseltine Hoyt Professor of Theatre

#### Katherine Starer '11 and Aliyah Bilal Gore '11

The Socially Interactive Garment

Seelye 107; video and garment presentation deriving from special study and thesis with Catherine Smith, professor of theatre, and Eitan Mendelowitz, assistant professor of computer science

#### **English and Comparative Literature**

#### Cornelia Beckett '14 @

Spark of Wit

Seelye 109; paper presentation deriving from work with Robert Hosmer, senior lecturer in English language and literature

#### Elyse Martin '11 @

"Citizen, My Mother Is the Republic": Gendered Notions of Heroism in 19th-Century Novels About the French Revolution

Seelye 109; paper presentation deriving from thesis with Elizabeth Harries, Helen and Laura Shedd Professor Emerita of Modern Languages (English and Comparative Literature)

#### Erica Zhang '13 @

Found in Translation: Editing the *Metamorphoses* Journal Seelye 109; PowerPoint presentation deriving from STRIDE research with Thalia Pandiri, professor of classics

#### Jaime Estrada 12 @

Power Dynamics Within Intimate Relationships: Patriarchy, Feminism and Same-Sex Love in Taiwanese Short Fiction

Seelye 109; paper presentation deriving from classwork with Sabina Knight, associate professor of Chinese and comparative literature

#### First-Year Seminar: Rebellious Women

Nadia Belkin '14, Helena Hassen '14, Rebecca Holtz '14 and Kathryn (Petey) Fear '14

Rebellious Women in the Archives

Seelye 206; panel presentation deriving from classwork with Kelly Anderson, lecturer in the study of women and gender

#### **Education and American Studies**

#### Marie Wallace '11

Igniting the Fire: What Schools Are Lacking That After-School Programs Are Offering

Seelye 208; PowerPoint presentation deriving from thesis with Samuel Intrator, professor of education and child study

#### Kathleen Daly AC11J

The Mentoring Ada: Three Portraits of Remarkable Ada Comstock Scholars in Education Seelye 208; paper presentation deriving from special studies with Rosetta Cohen, Sylvia Dlugasch Bauman

Professor (Education and Child Study)

#### Ariella Frishberg '12

Teaching About Rape Culture in High School Curriculums Seelye 208; paper presentation deriving from special studies with Rosetta Cohen, Sylvia Dlugasch Bauman Professor (Education and Child Study)

#### Kimberly Probolus '11 @

Motivation, Meritocracy and the Model Minority Myth: Representations of Asian-Americans in Spelling Bees Seelye 208; paper presentation deriving from thesis with Floyd Cheung, associate professor of English language and literature

#### **Economics**

#### Veronica Tjioe '11

The Effects of Parental Education on College Performance Seelye 211; paper presentation deriving from classwork with Roger Kaufman, professor of economics

#### Sara Gardephe '11

The Determinants of Matriculation at Smith College Seelye 211; paper presentation deriving from classwork with Roger Kaufman, professor of economics

#### Lily Du '11

The Effects of SAT Scores on College Admissions Officers' Ratings of Applicants at an SAT-Optional College Seelye 211; PowerPoint presentation deriving from classwork with Roger Kaufman, professor of economics

#### Candy Lee '11

The Effects of Making SAT Scores Optional at Smith College

Seelye 211; PowerPoint presentation deriving from classwork with Roger Kaufman, professor of economics

#### Margaret Nyamumbo '11

Effect of Alternative Weightings on *U.S. News* Rankings Seelye 211; PowerPoint presentation deriving from classwork with Roger Kaufman, professor of economics

#### Study of Women and Gender and Center for Community Collaboration

#### Elizabeth Mincer '13 and Annum Khan '11 @

Honor Crimes: Current Law and Policy Affecting Women Around the World

Seelye 301; poster presentation deriving from STRIDE research, special studies, and Mellon summer research grant with Elisabeth Armstrong, associate professor of the study of women and gender

#### Ilana Alazzeh '11 🗐

Food and Faith

Seelye 301; PowerPoint presentation deriving from classwork with Elisabeth Armstrong, associate professor of the study of women and gender

#### Allison Langley '13 and Erin Kassis UMass

Turning Brownfields Into Greenfields: Combating Food Insecurity Through Urban Agriculture Seelye 301; panel presentation deriving from classwork with Elisabeth Armstrong, associate professor of the study of women and gender

#### Religion

#### Hunter King '13J @

Feminism and the Jewish Renewal Movement Seelye 302; paper presentation deriving from classwork with Lois Dubin, professor of religion

#### Lucy White '11

Wife, Seductress and Goddess: Women and Wisdom Literature of the Hebrew Bible

Seelye 302; paper presentation deriving from classwork with Lois Dubin, professor of religion

#### Natalie Carroll Sargent '12 @

The Stanbrook Abbey Press: A Century of Nuns Making Books

Seelye 302; PowerPoint presentation deriving from Mellon grant research with Carol Zaleski, Professor of World Religions (Religion)

#### Megan Kearney '11

The Unseen World: Newman, Wordsworth, Coleridge and the Romanticism of "The Vision Which Haunted Me" Seelye 302; paper presentation deriving from special studies with Carol Zaleski, Professor of World Religions (Religion)

#### French and Italian Studies

#### Sheona Sauna '13 and Zoe Zaferiou '13 @

Mapping Paris through Space and Time Seelye 306; PowerPoint presentation deriving from STRIDE research with Hélène Visentin, associate professor of French studies

## Chrysanthe Peteros '11, Christine Davenport '11 and Iulia Simmons '11 ®

Italian Transformations: An Examination of Culture Through Politics, Artistic Form and Language Seelye 306; panel presentation deriving from theses with Alfonso Procaccini, professor of Italian language and literature, and Anna Botta, professor of Italian language and literature and of comparative literature

#### **International Topics in Corruption: Part I**

#### Jade Bowden '11, Sarah Unbehaun '11 and Malika Hunasikatti '11 ⊛

International Topics in Corruption: Italy, Brazil, Thailand Seelye 308; panel presentation deriving from classwork with Mlada Bukovansky, associate professor of government

#### **Russian Studies**

#### Katey Maya Dare Pillars '11 @

Pedagogy, Poetry, Particularity: The Tenishev School in Late Imperial Russia

Seelye 311; PowerPoint presentation deriving from thesis with Sergey Glebov, Five College assistant professor of Russian history

#### Ruth Spurlock '11 @

Revolutionary Figures: Alexander Blok and Federico García Lorca

Seelye 311; paper presentation deriving from special studies with Maria Banerjee, professor of Russian language and literature

#### Lauren Young '12 @

Father, Friend, Tsar: The Popular Legacy of Nicholas II Seelye 311; paper presentation deriving from special studies with Alexander Woronzoff-Dashkoff, professor of Russian language and literature

#### **Poetry, Film and Computer Science**

#### Lauren Egbert '11 and Hayley Raetz '12

Words Edge: Poetry by Lauren Egbert '11 and Hayley Raetz '12

Seelye 312; poetry reading deriving from special studies with Ann Boutelle, Grace Hazard Conkling Writer-in-Residence

#### Emily Sternlicht '11 @

Two Sides of the Spectrum: A Comparative Study of Activist Documentary Cinemas

Seelye 312; paper presentation deriving from special studies with Bernadine Mellis, Five College visiting artist in film studies, and Alexandra Keller, associate professor of film studies

#### Shanila Sattar '12J

Chaos and Emergence

Seelye 312; video presentation deriving from special studies with Judy Franklin, associate professor of computer science

#### **Mathematics, Engineering and Chemistry**

#### Betsy Cowdery GR, Allison Reed-Harris GR and Jayna Resman GR

The Geometry and Dynamics of an Ecological Arms Race Seelye 313; PowerPoint presentation deriving from classwork with Christophe Golé, professor of mathematics and statistics

#### Jayna Resman GR

The Mathematics of Climate Change: An Ice-Albedo Feedback Model

Seelye 313; PowerPoint presentation deriving from classwork with Christophe Golé, professor of mathematics and statistics

## Peace Young '12, Xizhu Zhao '12, Megan Lonsdale '13 and Rajiha Mehdi '13

Design and Fabrication of the Cargo Cycle Seelye 313; PowerPoint presentation deriving from Engineers for a Sustainable World and Vehicle Design Summit with Denise McKahn, assistant professor of engineering

#### Amelia Evans '11

Controlling Nanotopography and Surface Functionalization of Silicon Surfaces

Seelye 313; PowerPoint presentation deriving from thesis with Kate Queeney, associate professor of chemistry

## Noon–1:30 p.m. Campuswide Lunch

#### Chapin Lawn

(rain location: Scott Gymnasium)

Open to all students and visitors. Lunch will not be served in campus houses. Music provided by members of the Smith College Jazz Ensemble.

## 1:30–2:30 p.m. Concurrent Sessions

#### **Dance**

#### Genevieve Nave '11

Athletic Performance

Rugby Pitch; dance performance deriving from classwork with Candice Salvers, lecturer in dance

## Museums Concentration Research Capstone Projects

This session of PowerPoint presentations, deriving from classwork with Jessica Nicoll, director and Louise Ines Doyle 1934 Chief Curator of the Museum of Art, will be held in Seelye 101.

#### Jessica Watson '11 @

Soundscapes at the Smith College Museum of Art: Bringing Music and Art Together in the Galleries

#### Rebecca-Emma Kaplan '11 @

Rework/Revamp: Updating the Storage System of the Smith College Historic Dress Collection

#### Amber Sinicrope '12 @

Issues of Provenance in Collecting Pre-Columbian Artifacts: A Smith College Museum of Art Case Study

#### Zenobia Wingate '11 @

Marked Indigenous: An Exhibition Proposal for the Smith College Museum of Art

#### First-Year Seminar: (Dis)Obedient Daughters

Marie Jones '14, Alejandra Doucette '14, Erin Caitleen Desetti '14, Donna Dong '14, Meg Collins '14, Gabrielle Martone '14 and Amina Seay '14 ® Transformations of Snow White: Damsel in Distress, Little Mother, Rape Victim, Beautiful Corpse Seelye 107; multimedia presentation deriving from classwork with Thalia Pandiri, professor of classics

#### **Global Studies**

#### Reyna Levine '11 @

Modern Israeli Society and the Political Agenda Seelye 109; art presentation deriving from special studies with Justin Cammy, assistant professor of Jewish studies

Onawa LaBelle AC '12, Carly Mailly '12, Karen Morfin '12, Ryan Rasdall '11 and Anna Valentine '11 ® Empowerment of Tibetan Students through Women's Health Education

Seelye 109; PowerPoint presentation deriving from Global Learning Seminar with Leslie Jaffe, college physician and director of health services

#### Ashley Brickhouse '11, Chrislene Dejean '11, Sabine Jean '11 and Jewels Rhode '11 ⊜

Springs of Hope in Kibera, Kenya: Community Engagement Within a Global Context

Seelye 109; PowerPoint presentation deriving from Interterm volunteer project with Katwiwa Mule, associate professor of comparative literature

#### **Archival Studies and Poetry**

#### Ellen Cormier '11

"Your Very Own Sivvy": The Editing and Emendation of Sylvia Plath's Letters, 1952—1955 Seelye 110; paper presentation deriving from special studies with Karen Kukil, associate curator of special collections, and Michael Thurston, professor of English language and literature

#### Alix Korn '11 🚳

Memory, Mortality and Making History: Narrating the AIDS Epidemic in the Letters of Jane Rule and Rick Bébout Seelye 110; PowerPoint presentation deriving from Quigley Fellowship with Marilyn Schuster, provost and dean of the faculty

#### Anne-Catherine Berrut-Marechaud GR @

The Self and the Feminine Within the Poetical Text Seelye 110; poetry reading deriving from thesis with Susan Van Dyne, professor of the study of women and gender

#### **Center for Community Collaboration**

#### Gabrielle Caballero '13, Dylan Farrell '12 and Zemorah Tevah HC

Hunger, Scarcity and Wealth: The Food Policy Council in Springfield

Seelye 202; panel presentation deriving from classwork with Elisabeth Armstrong, associate professor of the study of women and gender

#### First-Year Seminar: Literature and Medicine

## Amanda MacAvoy '14, Jessica Sweeney '14 and Hannah Schiff '14 ❸

Autism, Cutting and Addiction: Three Projects from "Literature and Medicine" (FYS 140)

Seelye 206; panel presentation deriving from classwork with Sabina Knight, associate professor of Chinese and of comparative literature

#### **Early Education**

#### Hannah Green '13 @

Policies and Practices for Our Youngest Citizens: Perspectives From Pistoia, Italy

Seelye 208; PowerPoint presentation deriving from STRIDE research with Susan Etheredge, professor of education and child study

#### Annie Sussman GR

Merging the Verbal With the Visual: Teaching Literacy through the Arts

Seelye 208; PowerPoint presentation deriving from special studies with Susan Etheredge, professor of education and child study

#### Jade Bowden '11

An Encounter With *The Grouchy Ladybug:* A Literacy Experience in a Preschool Classroom

Seelye 208; PowerPoint presentation deriving from special studies with Susan Etheredge, professor of education and child study

## History, American Studies and the Study of Women and Gender

#### Anna Holley '12J @

Reclaiming a Voice With Action

Seelye 211; paper presentation deriving from classwork with Jennifer Guglielmo, associate professor of history

#### Géraldine Babin GR

The Representation of American Suffragettes in the Media: Entering Politics as Caricatures in the 1900—1920s Seelye 211; PowerPoint presentation deriving from special studies with Jennifer Guglielmo, associate professor of history

#### Anne Watanabe '12

From Radical Feminist Anti-Violence Movements to Shelters and Rape Crisis Centers: Cooptation, Resistance and Historical Erasure, 1970—1994

Seelye 211; paper presentation deriving from classwork with Jennifer Guglielmo, associate professor of history

#### **Comparative Literature**

#### Julia Whiting '14 @

From Political Protest to Police Support: Gavin Hood's Problematic Film Adaptation of *Tsotsi* 

Seelye 301; paper presentation deriving from classwork with Katwiwa Mule, associate professor of comparative literature

#### Mia Stange '14 @

Finding Home Within Herself: Identity and Power in African Female Narratives

Seelye 301; paper presentation deriving from classwork with Katwiwa Mule, associate professor of comparative literature

#### Abby Sprenkle '14 @

Revisioning *Tsotsi:* Gavin Hood's Cannibalization of Athol Fugard's *Tsotsi* 

Seelye 301; paper presentation deriving from classwork with Katwiwa Mule, associate professor of comparative literature

#### **Biological Sciences**

## Chelsea Moriarty '13, Kim Chi Ngo '13 and Jean Eisenman '14

To Divide or Not to Divide, That Is Our Question: Characterizing the Role of Eg5 Kinesin in Mediating Neural Stem Cell Proliferation in the Zebrafish Spinal Cord Seelye 302; PowerPoint presentation deriving from STRIDE research with Michael Barresi, assistant professor of biological sciences

#### 

Seelye 302; PowerPoint presentation deriving from thesis and STRIDE research with Steven Williams, Gates Professor of Biological Sciences

#### **Philosophy**

#### Angela Oliverio '12 @

Do We Owe Them Anything? An Examination of Sustainability and Future Individuals Through Parfit's Paradox

Seelye 306; paper presentation deriving from classwork with Jeffry Ramsey, associate professor of philosophy

#### Sofia Walker '11 @

Two Houses Both Alike in Dignity? Literature and Philosophy Battle for Supremacy

Seelye 306; paper presentation deriving from thesis with Susan Levin, associate professor of philosophy

#### **International Topics in Corruption: Part II**

#### Lily Samuels '11, Amelia Mitchell '11 and Catherine Campoverde '11 ⊜

International Topics in Corruption: The OECD, Uganda, Fcuador

Seelye 308; panel presentation deriving from classwork with Mlada Bukovansky, associate professor of government

## Neuroscience, Biological Sciences and Chemistry

## Kristen Park '13, Jennifer Chan '12 and Christina Johns '12

The Effect of Anesthetics on Beta Amyloid Pores in Blacklipid Membranes

Seelye 311; PowerPoint presentation deriving from special studies and AEMES research with Adam Hall, associate professor of biological sciences

#### Anastasia Gant '11

Understanding Biodiversity Among Microbial Eukaryotes From the Local Environment

Seelye 311; PowerPoint presentation deriving from thesis with Laura A. Katz, Elsie Damon Simonds Professor of Biological Sciences, and Kate Queeney, associate professor of chemistry

#### Sara Sirois '11

Exploring the Bacterial Diversity of Avery Brook Beaver Pond Sediments

Seelye 311; PowerPoint presentation deriving from thesis with Robert Merritt, professor of biological sciences

#### **Dance**

#### Susana Rodriguez '12J

Martha Graham's Dance With Freud: Psychoanalytical Implications in *Night Journey* 

Seelye 312; paper presentation deriving from classwork with Lester Tomé. instructor of dance

#### Mei Maeda '13

Radical Provocateur Exposed: Isadora Duncan in the Nude Seelye 312; PowerPoint presentation deriving from classwork with Lester Tomé, instructor of dance

#### Imogene Williams '13 @

Black Bodies' Aesthetics: Urban Bush Women's Naps and Booties

Seelye 312; PowerPoint presentation deriving from classwork with Lester Tomé, instructor of dance

#### **Education and Child Study**

Glendean Hamilton '13, Megan Porter '13, Danielle Santos '11, Claire Abisalih '13J and Carlie Dennison-Leonard '13

Bridging Schools and Communities: Models for Education in the 21st Century

Seelye 313; panel presentation deriving from classwork with Carol Berner, lecturer in education and child study

#### **Chinese Words and Images**

This session will run from 1:30 to 3 p.m.

Fan Meyerson '14, Kalsang '11, Nahee Kwak '14, Elis Lee '14, Clarissa Chang '11, Patricia Kim '14, Kayla McTeigue '13, Alex Van De Water '13 and Elayna Lalikos '13 ®

Words and Images in Chinese Culture Winslow Teaching Gallery, lower level, Museum of Art; poetry reading and art works installation presentation deriving from classwork with Sujane Wu, assistant professor of East Asian languages and literatures

# 2:45–4 p.m. Concurrent Sessions

#### Museums Concentration Research Capstone Projects

This session of PowerPoint presentations, deriving from classwork with Jessica Nicoll, director and Louise Ines Doyle 1934 Chief Curator of the Museum of Art, will be held in Seelye 101.

#### Lori E. Harris AC11 🗐

Silent Voices—African American Women and Reproductive Health, 1920–1940: A Public History Exhibition

#### Suzanne Oppenheimer '11 @

A Generation of Women Speak: Curating the Voices of Smith

#### Shereen Choudhury '11 @

Collecting the Remains: Curating Performance Art

#### Leila Tamari '11 🗐

Exhibiting the Wall: Rethinking Public Art Space in the West Bank

#### Anneliese Baierl '11 @

Open Space: A Student Artists' Collective and Alternative Exhibition Space for Smith College

#### **Art, Classics and Music**

#### Danielle Covatta '11 @

African Art at the Smith College Museum of Art: Exhibition Design Proposals

Seelye 107; art presentation deriving from special studies with James Middlebrook, assistant professor of art

#### Stella Schwartz '11 @

Conserving the Caverno Antiquities

Seelye 107; PowerPoint presentation deriving from special studies with Scott Bradbury, professor of classics

#### Madeline Zehnder '13

Bach Borrowing Bach: The Mass in B Minor Seelye 107; PowerPoint presentation deriving from STRIDE research with Jonathan Hirsh, senior lecturer in music

#### **Anthropology and History**

#### Ariel Gregory '11 @

More Than a Fez: In Search of Heritage and Identity in the Spaces and Places of Fās, Morocco

Seelye 109; PowerPoint presentation deriving from thesis with Elliot Fratkin, professor of anthropology

#### Yingtong Ding '13 @

Portrayals of the Nanjing Massacre in Chinese Movies From 1960 to 2011

Seelye 109; PowerPoint presentation deriving from work with Marnie Anderson, assistant professor of history

#### Alison Kuzara '11 @

The Role of Africa in America's Culture War Seelye 109; PowerPoint presentation deriving from special studies with David Newbury, Gwendolyn Carter Professor of African Studies (History)

#### Bonnie Stinson '11 @

Coalition-Building, Identity and Nonviolence: Egypt 2010\_11

Seelye 109; PowerPoint presentation deriving from classwork with Nadya Sbaiti, assistant professor of history

#### Kahn Institute: Why Educate Women?

This session of PowerPoint presentations, deriving from a year-long project organized by Susan Bourque, Esther Booth Wiley Professor of Government, and Rosetta Cohen, Sylvia Dlugasch Bauman Professor (Education and Child Study), will be held in Seelye 110.

#### Deborah Abiola Ahove '11

Female Education and Empowerment in Developing Countries

#### Chi Gao '11 @

The Effect of the One-Child Policy on Girls' Education in China

#### Gwen Gethner '11 @

The College Girls, Women's Education and the Smith College Relief Unit

#### Ella Hartenian '11

The Effect of Density on Women's Education

#### Juliana Jackson '11 @

Educated Women in the Middle Ages

#### Samra Nadeem '11 🗐

Female Education Through Pakistani Soap Operas

#### Darcy Rendón '11 @

Mexican Women's Education: 1916–1923

#### **French Studies**

#### 

The French Revolution of 1830: Differences of Perspective Seelye 206; panel presentation deriving from classwork with Mary Ellen Birkett, professor of French studies

#### **Center for Community Collaboration**

#### Laura Malecky '13 and Anna Hallman '13

Community Kitchen and Youth Urban Gardening in Springfield

Seelye 208; panel and film presentation deriving from classwork with Elisabeth Armstrong, associate professor of the study of women and gender

#### **Economics and Sociology**

#### Wenyue Yang '12

Oil Prices and U.S. Dollar Exchange Rate Seelye 211; PowerPoint presentation deriving from classwork with Mahnaz Mahdavi, professor of economics

#### Nan Xia '12 🗐

Relationship Between Exchange Rate and Stock Prices: Case Studies of China and the U.S.

Seelye 211; paper presentation deriving from classwork with Mahnaz Mahdavi, professor of economics

#### Joanna Goldfarb '11, Morgan Brescia '11 and Rebecca Rosen '12

The Effect of College Ranking System on Students in Elite Institutions

Seelye 211; PowerPoint presentation deriving from classwork with Tina Wildhagen, assistant professor of sociology

## Michele Lee '12, Adriana Chalas '12, Kalia Wright '11 and Emily Huesman '12 ◉

More Than a Number: The Repercussions of College Rankings on Students at Smith and Amherst College Seelye 211; PowerPoint presentation deriving from seminar with Tina Wildhagen, assistant professor of sociology

#### **Spanish, Portugese and Latin American Studies**

#### Kathryn Dhillon '11 @

Understanding and Translating Myself Through Digital Storytelling: To Spain and Back

Seelye 302; film presentation deriving from special studies with Molly Falsetti-Yu, lecturer in Spanish and Portuguese

#### Hannah Sultan '12 🗐

Owls in the Daytime: Volunteering on an Organic Farm in the Brazilian Cerrado

Seelye 302; PowerPoint presentation deriving from Interterm volunteer work with Malcolm McNee, assistant professor of Spanish and Portuguese

#### Elizabeth Tuttle '11 @

A Case Study of Women's Roles Within Latin America's Largest Social Movement

Seelye 302; PowerPoint presentation deriving from thesis with Malcolm McNee, assistant professor of Spanish and Portuguese

#### Joelle Labrecque '11 and Grace Kim '11 @

Modern Mexican Matriarchy: Myth or Reality? Seelye 302; PowerPoint presentation deriving from special studies with Nancy Sternbach, professor of Spanish and Portuguese, and Paola Ferrario, Harnish Visiting Artist

#### Government

#### Hanzhang Liu '11 @

Inner-Party Democracy in China: A New Model of Democracy or a Road Leading to Nowhere?

Seelye 306; PowerPoint presentation deriving from thesis with Steven Goldstein, Sophia Smith Professor of Government

#### Lily Samuels '11 @

Coming Home: The Struggles of Returning Girl Soldiers in Northern Uganda

Seelye 306; PowerPoint presentation deriving from thesis with Gregory White, professor of government

#### Megan Beyer '13 @

Two Twentieth Century Genocides: Rwanda 1994 and the Holocaust

Seelye 306; poster presentation deriving from classwork with Catharine Newbury, professor of government

#### Amelia Mitchell '11 @

Defining Legitimacy in Transitional Justice Seelye 306; PowerPoint presentation deriving from thesis with Alice Hearst, associate professor of government

## Health Psychology and Exercise and Sport Studies

#### Jingyang Zhang '14

Starving Souls

Seelye 308; PowerPoint presentation deriving from classwork with Barbara Brehm-Curtis, professor of exercise and sport studies

#### Megan Yee '12 and Adeola Awodele '11

Redefining the Role of Health Reps on the Smith College Campus

Seelye 308; panel presentation deriving from classwork with Benita Jackson, assistant professor of psychology

#### Amanda Gibbs AC11J and Rebecca Nelson '11

Rethinking Drinking

Seelye 308; panel presentation deriving from classwork with Benita Jackson, assistant professor of psychology

#### Lauren Kiernan '11

Green Space, Psychology and Health Seelye 308; panel presentation deriving from special studies with Benita Jackson, assistant professor of psychology

#### **Poetry Concentration**

#### Ingrid Jacobsen '11 @

Verse Video

Seelye 311; poetry and video presentation deriving from special studies with Ellen Doré Watson, director of the Poetry Center and lecturer in English language and literature

#### Leah Hamilton '11 @

Unknown Coast

Seelye 311; poetry reading deriving from special studies with Ellen Doré Watson, director of the Poetry Center and lecturer in English language and literature

#### **Biological Sciences and Engineering**

#### Gabriela Kubik '11

Photographic Exploration of Bog Amoebae Seelye 312; PowerPoint presentation deriving from special studies with Laura A. Katz, Elsie Damon Simonds Professor of Biological Sciences

#### Jian Hua Lin '11

Exploring the Nuclear Dynamics of *Arcella hemisphaerica* and the Features of Its Bacterial Endosymbionts Seelye 312; PowerPoint presentation deriving from thesis with Laura A. Katz, Elsie Damon Simonds Professor of Biological Sciences

#### Truc Nguyen '11

Phylogeography of Hyalospheniidae (Arcellinida) Morphospecies

Seelye 312; PowerPoint presentation deriving from thesis with Laura A. Katz, Elsie Damon Simonds Professor of Biological Sciences

#### Jayna Shea '12 and Mary Clark McGrath '13

The Effect of Myostatin Deficiency on Murine Tendon Material Behavior

Seelye 312; PowerPoint presentation deriving from summer research and special studies with Borjana Mikic, Rosemary Bradford Hewlett 1940 Professor (Engineering)

#### **Smith Studies**

#### Natalie Carroll Sargent '12 @

"A Vast Amount of Personal Effort": President Herbert Davis and the British Refugee Children at Smith College, 1940–43

Seelye 313; PowerPoint presentation deriving from STRIDE research with Carol Christ, Smith College president and professor of English language and literature

#### Natasha Zuniga '13

The Emergence of UNITY at Smith Seelye 313; PowerPoint presentation deriving from STRIDE research with Carol Christ, Smith College president and professor of English language and literature, and Nanci Young, college archivist

#### Kaitlin Hovanes '12

#### Smithipedia

Seelye 313; PowerPoint presentation deriving from STRIDE research with Carol Christ, Smith College president and professor of English language and literature, and Nanci Young, college archivist

#### Amanda Lineweber '11 @

From Northampton to Florence: The Legacy of Ruth and Clarence Kennedy

Seelye 313; PowerPoint presentation deriving from work with Nanci Young, college archivist

# 4:15–5:15 p.m. Collaborations Recital

#### Sweeney Concert Hall, Sage Hall

Enjoy an hour of music performed by selected music students and faculty together in small ensembles. Coordinated by Jane Bryden, Iva Dee Hiatt Professor of Music, and Judith Gordon, assistant professor of music.

#### **Participating Students**

Anne-Catherine Berrut-Marechaut GR, Lily Bouvier Devine '13, Emily Brown '11, Miriam Engel '13, EunMee Hong '14, Sarah Izen '11, Eloise Johnson '11, Ellen Michel '14, Celeste Pritchard '14, Caroline Rives '14, Joydita Sarkar '12, Jessica Watson '11 and Katie Weiser '13

#### **Participating Faculty**

Jane Bryden, Kivie Cahn-Lipman, Karen Smith Emerson, Judith Gordon, Joel Pitchon and Elizabeth Joy Roe

## 5:15–6 p.m. Reception

#### Sage Hall

Join us in celebrating the 10th year of Celebrating Collaborations!

# Other Events & Activities

#### Thursday, April 14

Student poster presentations on research projects completed by STRIDE students (including some Collaborations presenters)

4:30-5:30 pm, McConnell Hall Foyer

#### Thursday, April 14, and Friday, April 15

Open Campus (overnight program for all admitted students—welcome to the expected 700+ students and their parents!)

#### Thursday, April 14, through Saturday, April 16

Discovery Weekend (overnight program for admitted women of color—welcome to the expected 120 students!)

#### Thursday, April 14, through Saturday, April 16

#### The Pirates of Penzance

After completing his 21st and final year of indentured apprenticeship to a tender-hearted band of pirates, young Frederic falls in love with Mabel, the daughter of Major-General Stanley. But there's a snag. Frederic was born in a leap year, so technically he owes the pirates several more decades of service—and they want to hold him to it. Arthur Sullivan and W.S. Gilbert's beloved comic opera is directed by Ellen W. Kaplan. Tickets: \$8 general, \$5 students/seniors, \$3 Smith students.

8 p.m.; 2 p.m. matinee on Saturday, April 16. Theatre 14, Mendenhall Center for the Performing Arts

These events on or near Collaborations Day may be of interest.

#### Saturday, April 16

Tennis v. Roger Williams

#### Neuroscience Alumnae Panel

Nu Rho Psi, the National Honor Society in neuroscience presents Smith College's second annual neuroscience alumnae panel. Please join us at Collaborations with five accomplished Smith alumnae as they share their experiences in neuroscience and neuroscience-related careers. Come with your questions!

11 a.m.—noon, Neilson Browsing Room

#### Lacrosse v. Wellesley College

1 p.m., Athletic Fields

#### Tennis v. Union

2:30 p.m., Athletic Fields

#### Pan Africa Day Show

The Smith African-Caribbean Students Association's annual slate of performances, music and presentations showcasing the culture and educating the community about current events in countries in Africa and the Caribbean.

8 p.m., John M. Greene Hall

#### Spring Serenade

The Spring Serenade concert will feature several of Smith's performance ensembles, including the Glee Club, the Smith College Chorus and the a cappella group Groove. Free, no reservations required.

8 p.m., Sweeney Concert Hall, Sage Hall

Celebrating Collaborations is a project of the Committee on Academic Priorities (CAP).

#### Committee on Academic Priorities 2010-11

Robert Buchele, Department of Economics

John Davis, Associate Provost and Dean for Academic Development

Martine Gantrel-Ford, Department of French Studies Nicholas Horton, Department of Mathematics and

Maureen Mahoney, Dean of the College

Statistics

Joseph McVeigh, Department of German Studies

Katwiwa Mule, Comparative Literature Program

William Oram, Department of English Language and Literature

Danielle Ramdath, Associate Dean of the Faculty (Staff Liaison)

Marilyn R. Schuster, Chair, Provost and Dean of the Faculty

## Celebrating Collaborations Advisory Committee 2010–11

Michael Barresi, Department of Biological Sciences

Martine Gantrel-Ford, CAP, Department of French Studies Sabine Jean '11, Student Government Association

Demisha Lee, Office of Admission

Heather McQueen, Clark Science Center

Lucy Mule, Department of Education and Child Study

Kara Noble, Kahn Institute

Elizabeth O'Connor Johnson '11, Student Curriculum Committee

Danielle Ramdath, Chair, Provost's Office

Tom Riddell, Office of the Class Deans

Denise Rodino, Development

Hayley Spizz, Program Coordinator, Provost's Office

Eric Weld, Office of College Relations

Ali Zipparo AC, Student Government Association

#### Acknowledgements

Funding for this event is made possible through the generous support of the Provost's Office, the President's Office and the Office of the Dean of the College.

Dining Services provided outstanding food and logistical assistance with breakfast, lunch and the reception.

The Office of College Relations provided invaluable assistance with publicity.

The Office of Admission provided collaborative efforts to enable this event to be held in conjunction with Discovery Weekend.

The Development Office made alumnae aware of this event.

Facilities Management provided essential logistical assistance.

Classroom Support ensured that appropriate equipment and support was available for all presentations.

Matt Gawron and the Campus Center staff kindly allowed us to use the Campus Center prior to its opening and ensured that the science poster session went smoothly.

#### **Key to Abbreviations**

AC = Ada Comstock Scholar

AMH = Amherst College

GR = graduate student

HC = Hampshire College

J = graduation in January

MHC = Mount Holyoke College

NHS = Northampton High School

UMass = University of Massachusetts Amherst



Smith College Northampton, Massachusetts 01063 (413) 584-2700 www.smith.edu/collaborations



