

# Schedule of Presentations

**Conference Registration, Coffee and Muffins, 9:30-10am,  
Gannett Atrium**

## **Poster Session 1 10-11:10am**

### **Poster Session A, Bolton 281**

Jasmine Wallace, English, St. Lawrence, Her Happiness Would Derive From Her Marriage With The Beast”: Defining and Exploring the Subgenre of Animal-Human Transformation Fairy Tale

Courtney Elwell, Chemistry, Union, Studies of bifunctional nanotether influences on CdSe nanoparticle stability, chromophore distribution and thin film morphology

Logan Brenner, Geosciences, Skidmore, A Tale of Two Interglacials: A Stalagmite Stable Isotope Record Of Climate in Yucatán, Mexico Since 128, 000 YBP.

Megan P. O’Connor, Chemistry, Union, Investigation of the Binding of Perfluoroalkyl Acids to Human Serum Albumin Through <sup>19</sup>F Nuclear Magnetic Resonance and Fluorescence Spectroscopy

Brittany Ulrich '12 and Kathryn Stein '13, Chemistry, Skidmore, Dual pathways for Asn-tRNAAsn formation in *S. aureus* and *B. bacteriovorus*

### **Poster Session B, Bolton 282**

Jennifer L. Thomas, English, St. Lawrence, Neology in William Faulkner’s Light in August

Jonathan C. Bennion, Katelyn E. Bunker, Jenna I Gifford, Chemistry, Siena, Synthesis of cyclotri(3, 3"-para-terphenyldiyl ethynylene), a novel shape-persistent macrocyclic carbon single-wall nanotube precursor

Courtney Elwell, Chemistry, Union, Studies of bifunctional nanotether influences on CdSe nanoparticle stability, chromophore distribution and thin film morphology

Aaron Osher, Chemistry, Skidmore, Measurement and Modeling of Real-time Changes in Electroosmotic Flow under Dynamic Buffer Conditions

Stephen J. Juhl and Nicholas J. H. Dunn, Chemistry and Mechanical Engineering, Union, Preparation and Characterization of Alumina-Based Aerogels for Applications in Green Automotive Catalysis

### **Poster Session C, Bolton 283**

Philip Evangelista, History, St. Lawrence, Leaves of a Flower: A Latvian Woman’s Tale

Sean Heulton '12, Matt Walsh '13, and Madeline Frank'13, Chemistry, Skidmore, Expanding the genetic code of *E. coli* with Pyroglutamate

Brenda Olivo, Chemistry, Skidmore, Developing Cost-Effective Microfluidic Devices From Transparency Film

Evan P. Vanable, Chemistry, Union, Progress Towards the Full Synthesis of Botryolide E.

Alexander T Zanetti, Chemistry, Skidmore, The purification and crystallization of the LGN protein

### **Poster Session D, Bolton Hallway**

Vaishali Parkash and Tokuei Higashino, Physics, Union, Exoplanet Transit Observations at the Union College Observatory

Lucas S. Viani, Physics, Union, Star Formation in the NGC 5846 Group of Galaxies

Wyatt C. Smith, Physics, Union, Star Formation and Nuclear Activity in the NGC 5846 Group of Galaxies.

Christopher M. McGowan '12, Adina C. Micula '14, and Lyle A. Reed '12, Physics, Skidmore, Starbursts Versus Stripping: Where Is The Gas In Groups Of Galaxies?

Xinru Cheng (2014), Chi Yung Fung (2012), Physics, Colgate, Using Polarizers in Single Molecule Magnet Mn12 Acetate Terahertz Spectroscopy

Colin Turley, Robert Moore, Christopher Johnson, Maria Battaglia, Physics, Union, Construction and Commissioning of a New Scattering Chamber at the Union College Ion Beam Analysis Laboratory

Danielle M. Kreig, Chemistry, Union, Use of cell-permeable variants of trehalose for the cryopreservation of mammalian cells

Leland Martin, Chemistry, Skidmore, Construction of PMMA Microfluidic Devices

## **Oral Presentations Session 1 11:15-12:25**

### **Oral Session A, Bolton 280**

Barsha Baral, Shahin Islam, Biology, Hamilton, Phylogenetic Analysis of Nematodes Using Ribonucleoproteins

Jack A. Fischer, Cheng W. Ng, Sarah M. Minney, Biology, Skidmore, Deletion of genes involved in copper and silver resistance in *Cupriavidus metallidurans* CH34

Amanda A. Anafu, Biology, Colgate, The Interferon-Stimulated Gene *Ifitm3* Decreases Reovirus Infection Efficiency In HeLa Cells

Ethan B. Loew, Zeliang Zheng, Chemistry, Union, Amplification and expression of a putative metacaspase from the fungus *Schizophyllum commune*

### **Oral Session B, Bolton 281**

Katherine B. Imboden '13, Arts Administration, Skidmore, Inside An Adirondack Arts Organization: The Depot Theatre, Westport, N.Y.

Austin F. Walker, Levitt Center, Hamilton, The Lost Voices of Kenyan Youth  
Sophia Paljevic & Katherine DiFabio, Teacher Education, St. Rose, Sculpting the  
Future: Creating Safer Schools by Increasing Teachers' Awareness of  
Bullying.

### **Oral Session C, Bolton 282**

Adam M Steinberger, Mathematics /CS, Skidmore, Digital Image Source  
Identification

Kevin T. Chico, Mechanical Engineering, Union, Biomechanics of S-Looping  
Aurora D. Pinkey-Drobnis, Geoscience, Skidmore, Calendar-year dating of pre-  
historic hurricanes in Yucatan, Mexico using fluorescence micro-imaging of an  
annually-layered stalagmite

Leanna M. Vernon, Mechanical Engineering, Union, The Design of a Honda Odyssey  
FL250 Rear Suspension and Drive Train for Rough Terrain

### **Oral Session D, Bolton, 382**

Tara E. Keough, History, Siena, Excruciating' or Liberating?: Gender and Company-  
Sponsored Sports in the Post-War US and UK

Catherine A. Crone, Rare Books, Hamilton, From Old Virginia to the Beautiful Blue  
Danube: Banjo Instruction Methods in Nineteenth-Century America

Kevin W Hoercher, Russian Studies, Colgate, The All Too Brief History of KOM:  
Why Traditional Comics Failed

Meghan H. Woolley, History, Hamilton, Royal Appropriations of the Arthurian Myth  
at Glastonbury Abbey

### **Lunch at Murray Aikins Dining Hall 12:30-1:20**

### **Taiko Performance, Gannett Auditorium, 1:30-1:45 pm**

Amanda L. Laven, Music, Union, Lolita-Chan in Taiko Land

### **Oral Presentations Session 2 1:50-2:45pm**

#### **Oral Session E, Bolton 280**

Henry D. Anreder, Government, Hamilton, Comparative Responses of the Israeli  
Government, UNHCR and NGOs to African Asylum-Seeker Influx: 2004-2011

Matt Rothenberg, Government, Skidmore, The Generational Constitution

Laura Dugan, Sociology, Siena, Taylor vs. New Rochelle: Community Distress before the Public Trial

### **Oral Session F, Bolton 281**

Fatima Sall, Sociology, St. Lawrence, Women's Work: Examining the Indispensable Role of the Women of the Chipko Movement and the Niger Delta Protests in Combating Environmental Destruction

Hayden A. Kiessling, English, Hamilton, Kerouac's Sincere Pursuit of Authenticity in On The Road

Krista R. Bartholomew, Sociology, Siena, The Effects of Facebook on Siena College Students

### **Oral Session G, Bolton, 282**

Anna Lynch Sise, Physics, Union, Investigation of Laser Light in Color Reversal in Art Restoration

Simone Westerman, Psychology, St. Rose, Why do Some Elders Show a Lack of Interest in Health Promotion Programs: The Case of the Albany Neighborhood Naturally Occurring Retirement Community

Tim Brodsky, Michelle Finan, Lily Ng, Aaron Sheppard, Exercise Sciences, Skidmore, Effects Of Mntbap And Co Treatment On Adiposity And Rev-Erb Dependent Expression

### **Oral Session H, Bolton, 382**

Logan Arena, Eric Hultquist, Wesley Lefferts, Exercise Sciences, Skidmore, The Effects of Altered Core Temperature on Cardiovascular Strain, Thermal Strain and Performance

Lily Ng, Exercise Sciences, Skidmore, The effects of aging and isoform specific AKT ablation on insulin sensitivity and atrophy- related gene expression

Benjamin Humphreys, Computer Science, Union, Evolutionary Locomotion

## **Poster Session 2 2:50-4 pm**

### **Poster Session A, Bolton 281**

Nicholas M. Hugh, Government, St. Lawrence, Negotiating with the Enemy: Analyzing the Effectiveness of the United States' Foreign Policy Toward North Korea

Chun Yee Lau '12, Ravi Jariwala, Biology, Hamilton, A Genomic Approach to Help Identify Genes Involved in Sexual Reproduction of Fish Parasite, *Ichthyophthirius multifiliis*

Andrew Ross '12, Aaron Beck '14, Biology, Skidmore, A Model For Fetal Alcohol Spectrum Disorder In Zebrafish

Elon Gaffin-Cahn, Biology, Union, Dragonfly TSDN Response Time to Simulated

## Looming Objects

Kate Andrews, Psychology, Colgate, Spatial learning in crayfish: salience of visual and tactile cues

## Poster Session B, Bolton 282

James M. Curro, Math, St. Lawrence, Analysis of NHL Hockey Players

Rachel Boughton, Biology, Siena, Heat-seeking behavior in bird lice: Thermal cues mediate host-parasite interactions

Katherine A. Littrell, Biology, Skidmore, The Adaptive Significance of Female Mating Preferences in the Common Yellowthroat: Oxidative Stress, Sexual Ornamentation, and Offspring Quality

Elle M. Rathbun, Carlos Gomez, Matt Parker, Neuroscience, St. Lawrence, Novel Application of Cerium Nanoparticles in the Treatment of Multiple Sclerosis

Daniel L Moss, Neuroscience, Biology and Chemistry, Skidmore, Expression and Purification of Channelrhodopsin-2 Protein in *Pichia Pastoris*

Carly Sacks and Hannah Brechka, David Domozych, Biology, Skidmore, The unique bipolar mechanism of cell expansion in the unicellular green alga, *Penium margaritaceum*

## Poster Session C, Bolton 283

Edward G. Richter, Biology, St. Lawrence, Ecology of Roadside Mosses

Dilyana Mihaylova, Daniel Feinberg, Bethany O'Meara, Ana Fernandez, Matthew Combs, and Professor William Pfitsch, Department of Biology, Hamilton, Abundance of Invasive Plants in Hamilton College Forests

M. Duval, C. Glassberg, A. Schmelkin,, Environmental Studies, Skidmore, Linking the distribution of a noxious exotic plant, *Alliaria petiolata* (Garlic Mustard), and candidate dispersal vectors.

Daniel Feinberg, Samuel Silverman, Mathew Combs, Ana Fernandez, Dilyana Mihaylova, Bethany O'Meara, Professor William Pfitsch, Department of Biology, Hamilton, Investigation of Invasive Plants in the Hamilton College Forests

Julie Pineda, Environmental Studies, Skidmore, Dirt Poor or Rich with Nutrients? Soil Quality and Leaf Decomposition in Skidmore's North Woods

## Poster Session D, Bolton Hallway

Lindsay L. Schmitt and Becky Bui, Psychology Department, Skidmore, Are Two Spaces Better Than One? The Effect of Spacing Following Periods and Commas During Reading

Nicole K. Beers, Amy E. Callahan, Biology, St. Lawrence, Speaking of Smells: The Relationship Between the Verbal Description of Odors and Memory Recognition

Tani Leigh, Biology, Hamilton, Reconstructing the Eukaryotic Tree of Life Using Ribosomal Proteins as Molecular Markers

Tinashe E Nyanhete, Biology, Colgate, Nup53, Nup59, and Mlps are necessary for

efficient nuclear protein export.

Andrea L. Conine and Sondra M. Lipshutz, Environmental Studies, Skidmore, Are The Catskills Streams Fast Or Slug-Like At Retaining Phosphorous?

Hannah Brechka and Carly Sacks, David Domozych, Biology, Skidmore, Chemical Biology of cell wall-altering agents in *Penium margaritaceum*, a unicellular model system for anisotropic growth studies in plants