R·I·T

Undergraduate

Research Symposium

2012

Friday, August 10

8:00 a.m. to 5:15 p.m.

R·I·T

Welcome

Thank you for attending the 2012 Summer Undergraduate Research Symposium at RIT. It should be quite an event with over 200 of our undergraduate students presenting their scholarly and artistic achievements via poster, oral presentations, and exhibitions, which will make this our largest undergraduate research symposium ever!

This year the sessions are organized by the research topic and are very multidisciplinary in nature (i.e., Biomedical and Life Sciences, Chemistry and Materials, Energy and Sustainability, Modeling and Simulations, Imaging and Optics, Arts, Social Sciences and Humanities). I am very happy to report that every college and institute at RIT will have students presenting!

The event also features two keynote speakers who will highlight the importance of undergraduate research and innovation in promoting student and societal success. Brandy Pappas, a 2008 RIT graduate, is a James Mills Pierce Fellow at Harvard University and a graduate student in Harvard's biophysics department. Brandy will talk about her experiences in undergraduate research and how it helped shape her future career path.

Edward Reinfurt, Director of the Division of Science, Technology and Innovation at the Empire State Development Corp., will discuss the link between university research, innovation and economic development. Ed previously served as the executive director of the New York State Foundation for Science, Technology and Innovation.

I would like to acknowledge the numerous individuals and organizations that assisted in making this event possible. First and foremost are the faculty and staff mentors who have supervised all these research projects and have assisted the students in developing their presentations and posters for the symposium. It is their efforts that have created the tremendous environment for undergraduate research that we now have at RIT.

I would also like to thank the program and organizing committees for truly making this event possible. Their tireless efforts behind the scenes, dealing with all the logistics associated with putting on this program of this size, was remarkable. They have my personal gratitude.

And last but not least, I would like to thank all of our government, corporate, foundation, and individual sponsors who have supported this symposium and all of the research projects that are being presented today.

Thank you again for support of undergraduate research at RIT and enjoy the day!

Ryne Raffaelle
Vice President for Research
ryne.raffaelle@rit.edu

Table of Contents & General Agenda

Access the online program

Time	Presenters	Location
8:00 AM	REGISTRATION & Continental Breakfast	SLA Lobby
8:00 AM	Continental Breakfast	SLA 2210—2240
8:30 AM	Welcome & Keynote Speaker: Brandy Pappas	SLA 2210—2240
9:30 AM	Presentation Session	SLA 2120/2130/2140/GOL Aud/USC-1600
10:45 AM	Break & Poster Sessions	SLA Lobby/GOL Lobby/USC-1600
11:15 AM	Presentation Session	SLA 2120/2130/2140/GOL Aud/USC-1600
12:30 PM	LUNCH & KEYNOTE SPEAKER: Edward Reinfurt	SLA 2210-2240
2:00 PM	Presentation Session	SLA 2120/2130/2140/GOL Aud/USC-1600
3:15 PM	Break & Poster Sessions	SLA Lobby/GOL Lobby/USC-1600
3:45 PM	Presentation Session	SLA 2120/2130/2140/GOL Aud/USC-1600
5:15 PM	End of Symposium	

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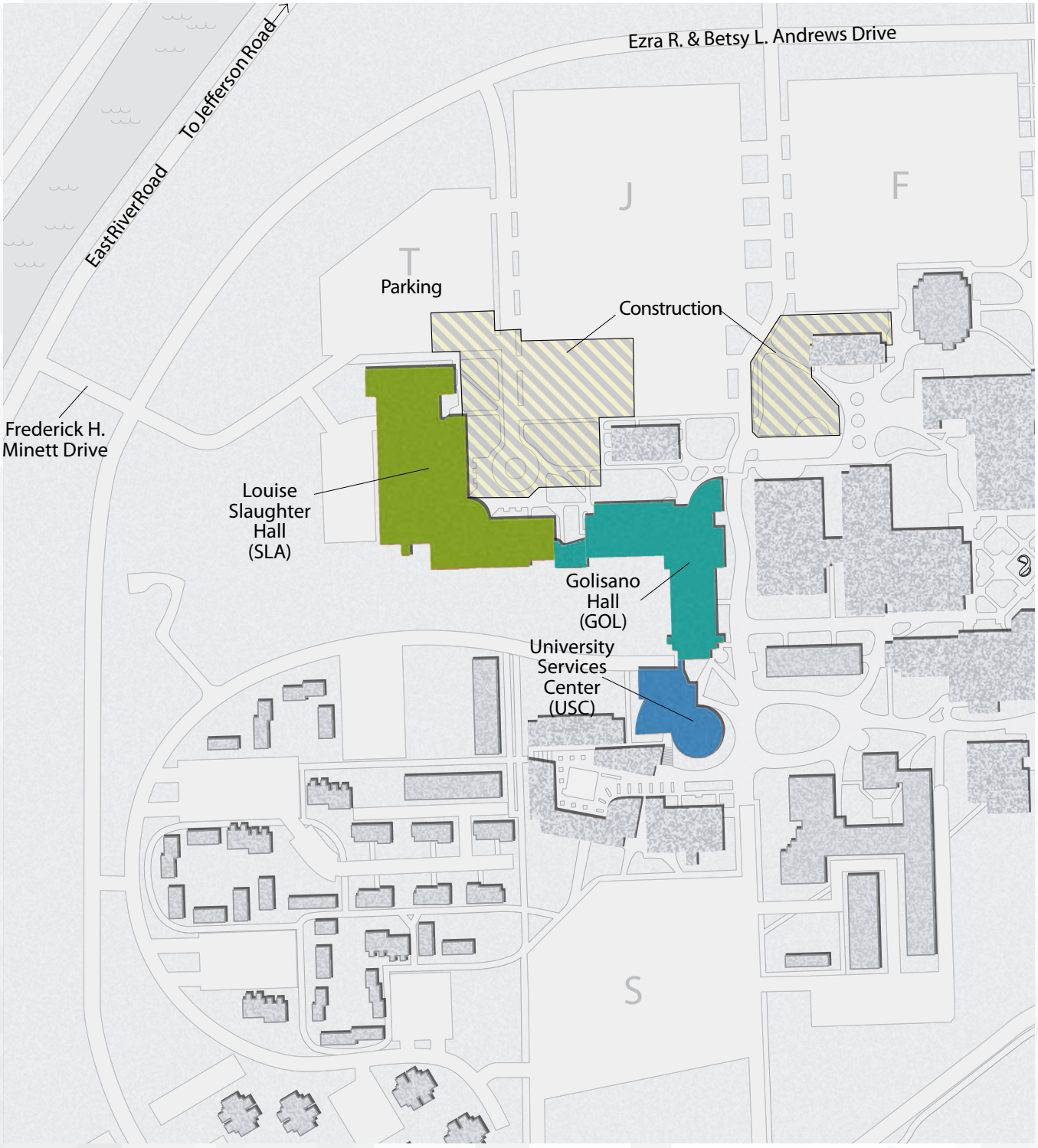
Symposium Map



Speakers

Brandy Pappas

Research Fellow, Biophysics PhD Candidate

Harvard University

Brandy began her scientific career in her hometown of Corning, NY, as a visiting researcher in Corning Incorporated's applied research division. Inspired by this early research opportunity in both the physical and biological sciences, Brandy joined Dr. George Thurston's lab shortly after coming to RIT. Brandy was awarded the Barry M. Goldwater Scholarship based on her work in his lab: using biophysical techniques to characterize human eye-lens proteins.

In addition to her experience at RIT, Brandy was an NSF Research Experience for Undergraduates Fellow at UC San Diego in 2006, she became an NSF & Department of Defense Summer Undergraduate Research Fellow at Dartmouth in 2007, and in 2008 was a visiting researcher at the University of Illinois Urbana-Champaign.

After graduating as an Outstanding Scholar with Highest Honors from RIT in 2008, Brandy received the James Mills Pierce Fellowship from Harvard University, where she is a graduate student in the Biophysics Department. She became a National Science Foundation Graduate Research Fellow in 2010 for her work in biological electron microscopy techniques. While at RIT, Brandy was President of the Honors Program, a Nathaniel Rochester Society Fellow and Founder and President of the Honors Program Curriculum Committee.

Brandy will provide an opening presentation on her experiences in undergraduate research, how these foundations evolved in her current work, and some insights into the innovation process for current students.

Edward Reinfurt

Director of the Division of Science, Technology and Innovation

Empire State Development Corporation

Edward Reinfurt, formerly the Executive Director of the New York State Foundation for Science, Technology, and Innovation (NYSTAR), currently serves as Director of the Division of Science, Technology and Innovation within the Empire State Development Corporation (ESDC). Uniting the missions and capabilities of NYSTAR and ESDC recognizes that innovation and technology are an integral part of the state's economic development efforts. The 2011-2012 state budget for ESDC provides funding for the state's five Centers of Excellence, fifteen Centers for Advanced Technology and ten Regional Technology Development Corporations (RTDC's).

Prior to his appointment at NYSTAR, Mr. Reinfurt served as Vice President of the Business Council of New York State, Inc. The Business Council represented more than 3,000 member businesses, chambers of commerce and professional and trade associations.

Mr. Reinfurt is a graduate of the University at Albany of the State University of New York.

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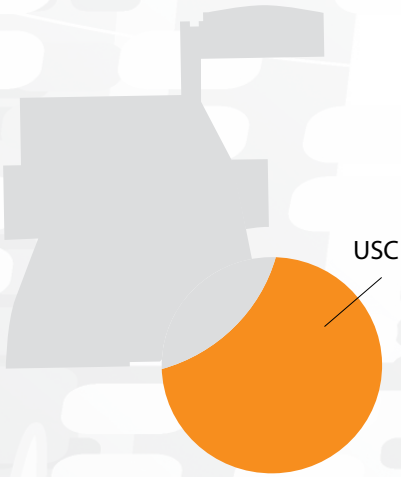
Biomedical & Life Sciences

Presentations
USC 1600

Time	Presenters	Title
9:30 AM	Greg Dodge	Predicting and Confirming Enzyme Function
9:45 AM	Luticha Andre Doucette	A Statistical Analysis of Protein Surfaces
10:00 AM	Brian C. Winkler	Tumor Detection Using a Modified Output Least Squares Approach
10:15 AM	Erin Crossen	Equation Error Approach for the Inverse Problem of Tumor Identification
10:30 AM	BREAK AND POSTERS (USC-1600)	
11:15 AM	Harshita Sood	Heavy Metal Avoidance Behavior in Terrestrial Isopods
11:30 AM	Nicole Kinlock	Analyzing the effectiveness and efficiency of different methods for invasive Typha spp. removal in created wetlands
11:45 AM	Charlie Border	Embryonic development of Brittle Stars and Sea Urchins
12:00 PM	Dylan Weil, Cheryl Hanzlik, Brandy Dennis	Confocal Microscopy Invasion Assay Using Prion-Containing Yeast Strains
12:30 PM	LUNCH & SPEAKER (SLA 2210-2240)	
2:00 PM	Jeremy Marshall	Demonstrating the Feasibility of a Self-Powered Biosensor System, Measuring Heart/Respiratory Rates
2:15 PM	Tayler Swanson	Sensor Development for the Strong Arm Vest
2:30 PM	Jenna Hopkins	Artificial Biocompatible Polymer Heart Valve
2:45 PM	Olabisi Alao, Kwadwo Opong-Mensah, Jamie Abston, Andrew Grimaldi	CleanTag
3:00 PM	Kayla Wheeler, Andres Ulloa, Ben Sima	Nebula Biotech
3:15 PM	BREAK AND POSTERS (USC-1600)	



Biomedical & Life Sciences

Posters
USC 1600

Poster #	Presenters	Title
310	Katie Smith	Subcellular Localization of a Putative B-alanine Aminotransferase from Arabidopsis thaliana
311	David Olney	On the potential of low frequency alternating current electric fields for microparticle manipulation in insulator based dielectrophoresis system
312	Olu Coker, Steven Ladavich	Adaptive User-Guided Assistive Listening System
313	Bradley Rogge	Development of Ophioplocus esmarki Embryos Showing Breaks in Ciliary Bands
314	Benjamin Merritt	Propolis, a Novel Inhibitor of Quorum Sensing in Bacteria
315	Nicholas Hensel	Computer Controlled Actuation of Micro-Manipulator via Serial Port with MATLAB GUI
316	Gloria Wink	Nature's Phenols: The Good and the Bad
317	Jascha Wilcox, Nick Montoya	Low Cost Lymphocyte Counter
318	Emily Holz	Settling Dynamics of a Contact Lens
319	Kelsey Williford	Is Breathing a Reliable Measure for Comfort?
320	Louis J. Moskowitz	Genetic Haplotyping of Anax junius
321	Diane Catlin	High Performance Liquid Chromatography (HPLC) Analysis of Vitamin D3 in a Daphnia Microcosm Experiment
322	Carson Labash	The Effects of Nanosurgery on the Intracellular Signaling and Oxidative Stress of Cancer Cells
323	Mikhail Osipovitch	Automated Protein Functional Motif Generation Using a Distance-Based Motif Finding Method
324	Paule Boli, Paul A. Craig, Herbert J. Bernstein	Comparison of Programs for Template Based Protein Structure Alignment
325	Maria Begum	Multiplex PCR assay for the simultaneous qualification of total streptococci, Streptococcus mutans and Streptococcus sobrinus.
326	Jack McDonald, Mark Zimmerman	Creating Heart Beats from Numbers
327	Kenneth Gerien	Phenotype Studies and Complementation Studies of Orf135 CTPase from E. coli
328	Kimbria Blake	Pho13 from Saccharomyces cerevisiae
329	Michael Madaio	ApaH from Legionella pneumophila
330	Tessa DiDonato	Diadenosine Polyphosphatases of the Nudix Hydrolase Superfamily
331	Alex Dawson-Elli, Joshua Miller	Large Area Nanoporous Membranes for Portable Hemodialysis

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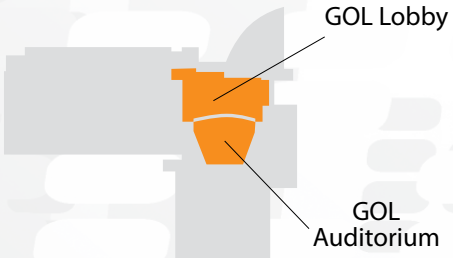
Chemistry & Material Science

Presentations
GOL Auditorium

Time	Presenters	Title
11:15 AM	Zachary Howard	Theoretical investigation of Mechanisms Determining Trap Lifetimes of Cold Molecules
11:30 AM	Nathan Cawley	Nonaffine Transformations in 2D Granular Shear
11:45 AM	Christian Richardsen	Rheology of U-Shaped Granular Materials
12:00 PM	Seaver Wrisley	Hyperelastic Material Property Characterization
12:15 PM	Wilkie Olin-Ammentorp	Investigation on Methods to Improve P-channel Metal-Oxide-Semiconductor (PMOS) and Thin-Film Transistor Performance
12:30 PM	LUNCH & SPEAKER (SLA 2210-2240)	
2:00 PM	Anthony Carestia	Studies Towards the Total Synthesis of Trocheliophorolide A
2:15 PM	Christian Larrabee	Ritter-like Amidation Using PEDOT Catalysis
2:30 PM	Russell Burkhardt	Studies Towards the Total Synthesis of Eletefine
2:45 PM	Zane Barnstien, Taylor Barrett	Peptide Scaffolds for Molecular Imaging Agents
3:00 PM	Carly Augustyn	Synthesis and Characterization of Iron Oxide Nanoparticles
3:15 PM	BREAK AND POSTERS (SLA Lobby)	
3:45 PM	Alana Stempien	Diameter Separations of Single Wall Carbon Nanotubes by Column Chromatography
4:00 PM	Anthony Sammarco	Extrusion of Carbon Nanotube Wires From High Weight Loading Dispersions in Chlorosulfonic Acid
4:15 PM	Curtis Beard	Reduction of Co-axial Cable Mass Using Carbon Nanotube Conductors
4:30 PM	Karen Soule	Physical and Electrical Properties of Single Wall Carbon Nanotube Thin-Films as a Function of Film Thickness
4:45 PM	Pierce Donovan	Growth of Metal Microcrystals
5:00 PM	Baxter Lansing	Developing biodegradable hybrid materials of low density polyethylene (LDPE) and poly (l-lactide) acid (PLA)



Chemistry & Material Science

Posters
GOL Lobby

Poster #	Presenters	Title
201	Alison Horn	Quantification of Manganese and Zinc in Children Nasal Secretions in Response to Infection by Streptococcus pneumoniae Bacteria
202	Khiem Khue	Mechanical Characterization of Biodegradable Low-Density Polyethylene and Polylactic Acid Hybrid Plastic
203	Ya-Haddy Salla	Development of biodegradable polymer hybrid for 3D printing
204	Alexandra Timberlake	Spectroscopic Characterization of a Cross Membrane Probe
205	Austin Kelly	Carbanion chemistry on chlorinated silicon surfaces
206	Avani Sudhakar	Hematin-Lumefantrine Binding Studies: Drug Fragments and Lipid Models
207	Emily Newman	Using Site-Directed Mutagenesis to Identify the Most Immunogenic Regions of Vaccine Candidate P6
208	Fernanda Troyner	A new approach to bilirubin measurements
209	Juliana Shaw	Using Biotinylation to determine the orientations of Pal in Escherichia coli
210	Matthew Goodrich	Synthesis of novel and interesting dyes
211	Sofiya Hlynchuk	Preparing Orthogonally Substituted Phenothiazinium Dyes and linking them to Biologically Relevant Molecules
212	Taylor Barrett, Hans Schmitthenner	Peptide Scaffold for Targeted Multi-modal Imaging Agents
213	Tri Nguyen	Synthesis and study the effect of cyclopropyl amino acid derivative on plant ethylene pathway
214	Valerie Sgheiza, Melody Frink	Investigation of Hemophore Activity in Nontypable Haemophilus Influenzae
215	Zane Barnstien, Hans Schmitthenner	Small Chain Peptide Scaffolds for MRI Imaging Agents
216	Caitlin Donovan	Improving Rapid Charge Batteries Using Nanotechnology
217	Steven Maniates	Behavior of Propagating Waves in the Excitable Belousov-Zhabotinsky Reaction
218	Thomas Close	Novel Technology for Heat to Electricity conversion
219	Matt Kasemer	Laboratory and Classroom Study of Low Cycle Fatigue and Linear Elastic Fracture Mechanics

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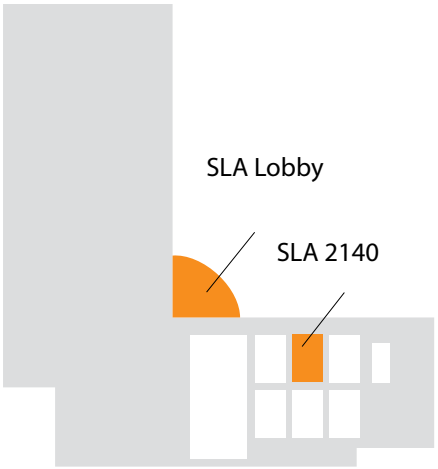
Energy & Sustainability

Presentations
SLA 2140

Time	Presenters	Title
9:30 AM	Victor Murcia	Novel Squaraine Dyes and their Impact on the Efficiency of Bulk Heterojunction Organic Photovoltaics
9:45 AM	Salvatore Fava	Prototype Windmill Blades
10:00 AM	Elias Fernandez	Characterization of triple junction solar cells with the utilization of quantum dots
10:15 AM	Elisabeth McClure	Polishing and Epitaxial Liftoff of GaAs Quantum Dot Solar Cells
10:30 AM	Travis Walker	Optimization of 3-D Printing Parameters for Development of Filament Materials
10:45 AM	BREAK AND POSTERS (SLA Lobby)	
11:15 AM	Kailey Bradt	Optimization of Electrode Thickness and Conductive Additive Percentage in Lithium Ion Batteries
11:30 AM	Michael J. Dzara	Rate Performance of Germanium-SWCNT Composite Anodes as a Function of SWCNT Loading and Areal Capacity
11:45 AM	Michael J. Miller	Rate performance of LiNiCoO2 cathodes as a function of SWCNT additive type
12:00 PM	Olivia Matthew	Synthesis of lithium rich layered transition metal oxide cathode materials for lithium ion batteries
12:15 PM	Samantha Abraham	Synthesis and Characterization of Lithium Iron Orthosilicate as a Cathode Active Material for Lithium Ion Batteries
12:30 PM	LUNCH & SPEAKER (SLA 2210-2240)	

Energy & Sustainability

Posters
SLA Lobby



Poster #	Presenters	Title
101	Jasmine Tompkins	Green Plastics Manufacturing Technology for grades 6-12
102	Jorge Sandoval	Green Robotics
103	Eric Johnson	Environmental Implications of Disposing Lithium-ion Batteries in the Landfill Based on TCLP Simulation
104	Omega Christian	Lithium ion battery recycling
105	Johanna Stokes	Waste Heat Conversion: Characterizing Direct Thermal to Electrical Conversion Devices
106	Wade Campney	The effect of Denial-of-Service attacks on wireless network-on-chip architectures

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Imaging & Optics

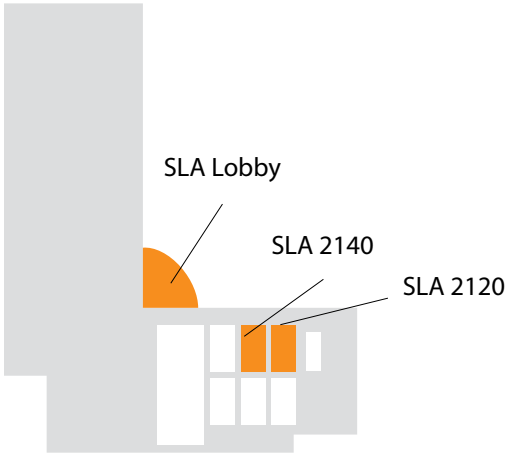
Presentations

SLA 2120

Time	Presenters	Title
9:30 AM	Vladimir Pribula	Synchronizing Videos to Music via Motion Analysis
9:45 AM	Brittany Ambeau	A graph-theoretic approach to hyperspectral image classification
10:00 AM	Okechukwu (Sydney) Igbokwe	Classical mechanics of optomechanical systems
10:15 AM	Robert Nevins	Modeling Satellite Imaging Sensors Over Optically Complex Bodies of Water
10:30 AM	Matthew Beardmore, Matthew Bowen	Development of an Advanced 3D Scanning System
10:45 AM	BREAK AND POSTERS (SLA Lobby)	
11:15 AM	Alexis La'Boy	The Nature of Slowly Pulsating B-Type Stars
11:30 AM	Alexander Nicolaas Habermann	The search for exoplanets in an open star cluster
11:45 AM	Ivana Mariel Molina	Relationship between X-Ray Flux Structures and Coronal Mass Ejections
12:00 PM	Mariangelly Diaz Rodriguez	Uncovering Young Stars near Earth
12:15 PM	Robert Castillo	Using Photometry to find B[e] Star Candidates in the Large Magellanic Cloud
12:30 PM	LUNCH & SPEAKER (SLA 2210-2240)	
2:00 PM	Daniel S. Goldberg	Quality of Hyperspectral Images for Pixel Unmixing
2:15 PM	Trent Seelig	Mapping sub-kpc gas flows in nearby supermassive black holes
2:30 PM	Michael Eggleston	A novel exploration of the spiral phase plate and optical resonator stability
2:45 PM	Marc Magagnoli	Spectropolarimetry of Active Galactic Nuclei
3:00 PM	Neil Campbell	A Systematic Study of Radio Jet Impact on the Intracluster Medium in Powerful Radio Galaxies in Rich Environments Using Chandra X-ray Images
3:15 PM	BREAK AND POSTERS (SLA Lobby)	
3:45 PM	Rachel Murphy	Evaluating Eye-tracker Accuracy: Developing a Gold Standard
4:00 PM	Nadya Spice	Scientific Imaging vs. Manual Methods in Vegetation Studies
4:15 PM	Nikko Schaff, Ryan Rich, Conor Craig	Gradesnap - The Future of Grading
4:30 PM	Vladimir Pribula	Using Images to Tally Students' Answers to a Professor's Question in the Classroom
4:45 PM	Nicole Dubs	Pursuing an Improved Description of Gloss: Characterization of the Micro-Goniophotometer.
5:00 PM	Camila Gomez Serrano	Flow Boiling with Microchannels

Imaging & Optics
Presentations
SLA 2140

Time	Presenters	Title
2:00 PM	Soham Chakraborty	Design of a Blood Glucose Monitor
2:15 PM	Michael Every	Spin Cast Plastic Telescope Mirror Improvements
2:30 PM	Geni Giannotti	Mircobubble Ultrasound Contrast Fragility
2:45 PM	Clarissa Garvey	Nonrigid Medical Image Registration using Fractional Partial Differential Equations
3:00 PM	Jake Shechter	Studying Colloidal Suspensions with Confocal Microscopy to Analyze Particle Rearrangements
3:15 PM	BREAK AND POSTERS (SLA Lobby)	



Imaging & Optics
Posters
SLA Lobby

Poster #	Presenters	Title
120	Noella Kolash	Accessible Viewing Device
121	Darrel Pollard	Space Adventures - Interactive Learning
122	Ryan Noonan	Low-cost DIY Science Education Technology
123	Jack Stokes	Computer-Assisted Targeting of Cells for Nanosurgery
124	Ariana Bhalla	Improving Techniques for High Resolution Analysis of Experimental Nanofluidics
125	Christopher Fallon, Christina Everdyke	Introducing Middle School Students to Astronomy Research
126	Alex Etienne	The Preservation of Digital Motion Picture Content
127	Adam Blaine	Easier Note taking for low-vision students via iPad

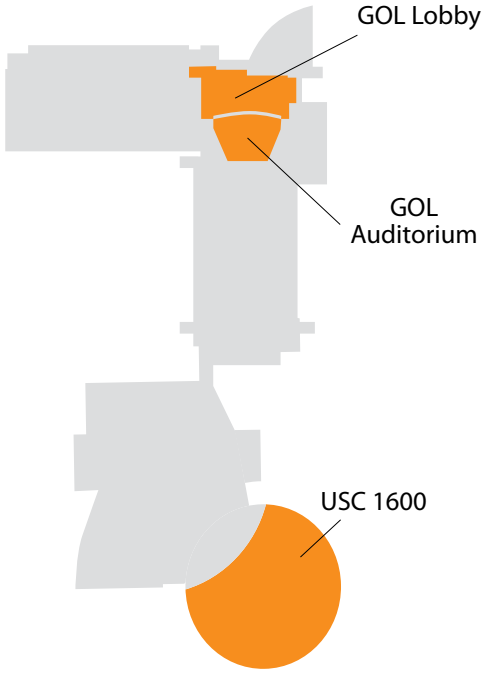
Modeling & Simulations
Presentations
GOL Auditorium

Time	Presenters	Title
9:30 AM	Geoffrey Bastian	Validation of an Analytical Model for a Collisionless Walking Robot
9:45 AM	Lennard Streat	Genetic computer architectures
10:00 AM	Darby Cairns	Performance considerations in a platform-independent data analysis program
10:15 AM	Luke Coy	Detecting and diagnosing specification-related energy bugs on mobile platforms
10:30 AM	Rinchen Dorjee	Optimizing Statistical Data Analysis
10:45 AM	Scott Neuman	Anechoic Shielded Chamber for Automated Antenna Radiation Pattern and gain measurement
11:00 AM	BREAK AND POSTERS	
12:30 PM	LUNCH & SPEAKER (SLA 2210-2240)	
3:15 PM	BREAK AND POSTERS (USC-1600)	
3:45 PM	Tyler Kindron	Mathematical model of simplified Klondike Solitaire
4:00 PM	Ivan David Di Lernia	The Evolution of Accretion Disks in Stellar Interiors
4:15 PM	Andrew Loheac	Parallel processing of U-shaped granular materials with CUDA
4:30 PM	Raphael Kahler	Orientation of Electrical Scroll Waves in the Heart: Implications for Cardiac Arrhythmias
4:45 PM	Nelson Silva	Simulations of Geometrically Cohesive Granular Materials
5:00 PM	Austin Chacosky	Expanding Learning and Forgetting Models for Faster Cross-Training Worker Assignments

Modeling & Simulations
Presentations
USC 1600

Modeling & Simulations

Posters
USC 1600



Poster #	Presenters	Title
301	Taylor Carpenter	Generic Data Forecast Modeling with Genetic Algorithms
302	Abdul Bangura	Proposed Protein Function Based on NMR Active Site Templates
303	Quinte Osborne	Using Expert Networks as a Predictor in Manufacturing Processes
304	Andrew Rietz	3D Finite Element Modeling of Seismic Soil-Structure Interaction in Highway Bridges with HP Driven Piles
305	Benjamin Liu	A mechanistic explanation for extreme sensitivity to initial conditions in the development of cardiac arrhythmias
306	Joshua Weimer	Analyzing Models of Cardiac Purkinje Cells
307	Steven Kroh	Application of Software Engineering Principles to a Scientific Data Analysis Code
308	Noel Esenwa	Electromechanical Actuator Condition Monitor Housing and And Algorithm For Signal Identification Using A Discrete Fourier Transform
309	Bryan Gawinski, Megan Kushner	MindGamers: Character Customization from 2d Flash into 3d Unity

Social Sciences & Humanities

Presentations
SLA 2130

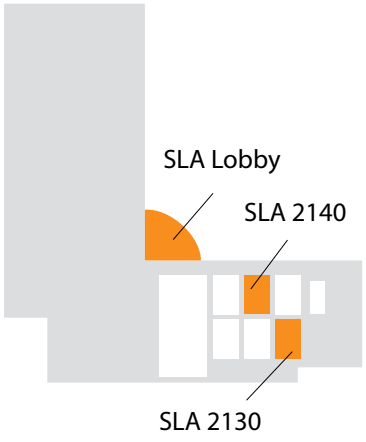
Time	Presenters	Title
9:30 AM	Kurt Poquette	Using "Non-Intimidating" Technology to Connect People with Science
9:45 AM	Greyson Watkins	ASL Astronomy Activities for Education and Public Outreach
10:00 AM	Alexander Triassi	Encouraging Families to Explore Science: an RIT-RMSC Partnership
10:15 AM	Brendan Reinert	Improving Science Education
10:30 AM	Tanner Newcomb	Effect of Admissions Networks Interactive Features on Enrollment, Engagement and Retention
10:45 AM	BREAK AND POSTERS (SLA Lobby)	
11:15 AM	*Andrew Mandula, Timothy Reynolds, Piper Chester, David Gay, Francis Yuan	Linking Real World Activities and Game Experience
11:30 AM	*Ross Delinger	Software stack for issue and manipulating Open badges
11:45 AM	*Chris Lockfort	Interface for Automated Kernel Parameter Tuning
12:30 PM	LUNCH & SPEAKER (SLA 2210-2240)	
2:00 PM	Vlad Ionescu	Physical and Behavior Security Solutions for the Android Smart Phone Platform
2:15 PM	Zachary Noren	Scopur Investor Presentation
2:30 PM	Jason Shanley	UrLocker, LLC
2:45 PM	Rob Kurst, Ryan Murphy, Joe Viola, Matthew Newton	Applicable Solutions - Virtual Briefcase
3:00 PM	Jim Male	Extracting Diagnostic Information from Dermatological Narratives
3:15 PM	BREAK AND POSTERS (SLA Lobby)	
3:45 PM	Zachary Travis	Tattoos and Their Influences on College Students
4:00 PM	Tracy Bonzo	Daughter's Self-Reported Communication Competence: How A Father-Daughter Relationship Impacts Communication Competence
4:15 PM	Melissa Ziankoski	Global Warming and the Problem of Failed Intentions
4:30 PM	Kathryn Womack	Disfluencies in the Medical Reasoning Process
4:45 PM	Gareth Fitzgerald Barry	The No Relief

* Remote Online Presentations

Social Sciences & Humanities
Presentations
SLA 2140

Time	Presenters	Title
3:45 PM	Valerie Altounian	Inside the Mind of an Alcoholic: Video as a Clinical Educational Tool
4:00 PM	Wade Kellard	Establishing Guidelines for Accessibility of STEM Resources Online
4:15 PM	Tyler Geery	Space Adventure
4:30 PM	Anthony Hennig	Air Muscle Activity Kits and Demonstrations
4:45 PM	Colby Carll	Evaluating Multi-Site NASA Education and Public Outreach Programs

Social Sciences & Humanities
Posters
SLA Lobby



Poster #	Presenters	Title
107	Michael Smith	Interactions between players in collaborative videogames
108	Miguel Tantas	NLP in Perl to find human emotions in SMS messages
109	Henrique Araujo Monteiro, Ryan Welch	Raising Awareness of Engineering Research Projects through Graphic Design
110	Amanda L. Heberle, Kayla M. Mata, Caroline M. DeLong	View-dependent auditory object recognition by humans listening to dolphin echoes
111	Ashlynn M. Keller, Caroline M. DeLong	Training Goldfish (Carassius auratus) to Discriminate Between Different Numerosities
112	Kristin Kraemer	The Effect of Color Cue on Olfactory Perception
113	Meghan Doty Castagno	Does Sound Influence Eye Movements in Individuals with ADHD?
114	Rose Campbell	Enhancing Effective Teams
115	Vanessa Aubé	Volunteerism and Well-Being: The Mediating Role of Mattering
116	Jeremy Pitzeruse, Michael Peechatt	Attaché
117	Anna Jensen	Design Project to Raise Awareness of Aerospace Careers for Pre-High School Women
118	Brandon Edquist	Designing to Communicate Science
119	Kenneth Tyler Wilcox, Catina Wright, Caroline M. DeLong	Training North American River Otters (Lontra canadensis) to Discriminate Among Objects

Presenter Index

Notes

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