Undergraduate Research Spring Symposium & Awards

Thursday April 3rd, 2008

Sponsored by:
Undergraduate Research Opportunities Program (UROP)
Event:
Thursday April 3, 2008
Location:
Student Center Ballroom & Surrounding Rooms
Times:
Oral Presentations 1:40-4:20 pm
Poster Session 3:00-4:30 pm
Awards Ceremony & Reception 4:30-6:00 pm

Oral Presentations
Student Center, 3rd Floor

Session A: Computing
Student Center Room 301
Moderator: Mr. Mitch Keller, Mathematics/Computing

2:20pm
An Improvement to the Regula Falsi Method
Rob Parrish, ME

2:40pm
The Online Community Grid
Danny Miller, CM
Mentor: David Bader, COC

3:00pm
MANET routing: Manifolds and the WDL
James Robinson, CS
Mentor: Santosh Vempala, COC
Session A, continued

3:20pm
Imprint
Hafez Rouzati, CS
Mentor: John Stasko, COC

Session B: Biomedical, Chemical, and Materials Engineering
Student Center Room 321
Moderator: Ms. Ann Blasick, DOPP

1:40pm
Platinum Catalyst Degradation in Proton-Exchange Membrane Fuel Cells
Yungchi Fan, CHBE
Mentor: Tom Fuller, GTRI

2:00pm
Quantitative Metrics for Bio-Modeling Algorithm Selection
Chanchala Kaddi, BME
Mentor: May Wang, BME

2:20pm
Nanoscale Imaging Probes for Personalized Medicine
Leslie Chan, BME
Sri Rahul Balusu, BME
Alice Chan, BME
Mentors: Ravi Bellamkonda, BME; Stathis Karathanasis, BME

2:40pm
Bioinspired Design of Hydrogel-Encapsulated Underwater Flow Sensors
David Lu, MSE
Mentors: Vladimir Tsukruk, MSE; Michael E. McConney, MSE;
Kyle Anderson, MSE

3:00pm
Optimizing the Synthesis of PK3 for Drug Encapsulating Microparticles
Sydney Shaffer, ChBE
Mentor: Niren Murthy, BME
Session B, continued

3:20pm
Poly(ethylene)glycol-based Poly(beta-amino ester) for Stem Cell Encapsulation
Martha Lesniewski, MSE
Mentor: Ken Gall, MSE

Session C: Aerospace, Mechanical, and Electrical Engineering
Student Center Room 319
Moderator: Dr. Tris Utschig, CETL

2:00pm
Development of a Small Size RoboCup Team
Andrew Bardagjy, ECE
Roman Shytelman, CS
Stefan Posey, AE
Jason Kulpe, ME
Phillip Marks, EE
Ben Johnson, EE

2:20pm
A Novel Architecture for Broadband Optical Access Network
George Melcer, CmPE
Mentor: G.K. Chang

2:40pm
Parachute Recovery System Design for the Mars Gravity Biosatellite Entry, Decent, and Landing System
Brandon Smith, AE
Mentor: Robert Braun, AE
Session C, continued

3:00pm
Dynamics of an Acoustically Excited Swirl Flame
Hsin-Hsiao Ma, AE
Mentor: Tim Lieuwen, AE; Kumar Thumuluru, AE

3:20pm
Power Transmission through Fluid Coupling
Laura Hershberger, AE
Mentor: Narayanan Komerath, AE

3:40pm
Comparison of RBF and SHL Neural Network Based Adaptive Control Applied to Low and High Fidelity Flight Simulations
Ryan Anderson, AE
Mentor: Eric Johnson, AE

Session D: Sciences
Student Center Room 320
Moderator: Dr. Karen Adams, Fellowship Communication Program

2:00pm
Visualizing Transcytosis via a FRET-based Low-Density Lipoprotein Probe
Nicole Fay, Chemistry
Mentor: Christine Payne, Chemistry

2:20pm
Ratiometric Zn(II)-Sensing with 2-(2-Arylsulfonamidophenyl)benzimidazole Derivatives: Decoupling the Zn(II)-induced Emission Shift from pH-dependent Changes
Aneese Chaudry, Chemistry
Mentor: Christoph Fahrni, Chemistry
Session D, continued

2:40pm
Maximum G-Parking Functions
Brian Benson, Math
Mentor: Prasad Tetali, Math

3:00pm
Fin Ray Modeling
Alan Penkar, Math
Azhar Bande-Ali, CmPE
Mentor: Silas Alben, Math

3:20pm
The Effects of Immediate Experience with a Novel Technology on Privacy Concerns
Kaylee Burnham, Psychology
Mentor: Wendy Rogers, Psychology; Dan Fisk, Psychology

3:40pm
Degradation of Information: Warning Symbol Design Considering Damage
Daniel Shorr, Psychology
Mentor: Arthur D. Fisk, Psychology

Session E: Humanities
Student Center Room 301
Moderator: Dr. Karen Head, CETL/LCC

4:00pm
Assistive Technology: The Application and Rhetoric of Cochlear Implants
Lindsay Chatel, STAC
Mentor: Rebecca Burnett, LCC
1 University Education Expansion in Venezuela and Labor Market Outcomes: What Can We Learn from the Data
   Naihobe Gonzalez, EIA
   Mentor: Ruth Uwaifo, ECON

2 A History of Birth Control
   Jonathan Hege, HTS
   Mentor: John Tone, HTS

3 Gene Doping in Sports
   Dustin Padgett, ME
   Mentor: John Tone, HTS

   Leyna Palmer, HTS
   Mentor: Amy D’Unger, HTS

5 Malaria and Social Change in the Southeast
   Malcolm Palmer, HTS
   Mentor: John Tone, HTS

6 Which Witch? The Controversy Surrounding Bewitched and Harry Potter
   Natalie Warnick, HTS
   Mentor: Doug Flamming, HTS

7 A History of Pediatric Leukemia Treatment
   Naomi Warnick, Biology
   Mentor: John Tone, HTS
Ivan Allen College of Liberal Arts, continued

8 Second Life Augmented Reality—Virtual Performance Project
   Jenifer Vandagriff, STAC
   Tobias Lang, Visiting Student
   Florian Schulz, Visiting Student
   Brian Shrader, CM
   Jarryd McCree, CM
   Malinda Drinkuth, CM
   Mentors: Michael Nitsche, LCC; Jay Bolter, LCC;
           Kathryn Farley, LCC; Blair McIntyre, COC

9 Georgia’s Gold Industry After the Civil War
   Stephen Brinks, HTS
   Mentor: Douglas Flamming, HTS

10 The Effects of Pacing in Teaching Older Adults to Use Novel Technologies
    Tatyana Kabakova, Psychology
    Mentor: Wendy Rogers, Psychology

    The Effects of Worked Example Ordering on Learning and Retention
    Roudabeh Kishi, Psychology
    Mentor: Richard Catrambone, Psychology

12 Bile Acids Modulate Steroidogenic Gene Expression in H295R Adrenocortical Cells
    Shaili Shah, BIOL
    Mentor: Marion Sewer, BIOL
13  Rotifer Ecotoxicology: Behavioral Avoidance of Toxicants
    Emily Weigel, BIOL
    Mentor: Terry Snell, BIOL

14  [PSI+] Prion Transmission Within the Yeast Saccharomyces Genera
    Stefka Gyoneva, BIOL
    Mentors: Yury O. Chernoff, BIOL; Buxin Chen, BIOL

15  Use of Introduced Enantioselectivity into Thin PANI Films for Gas Sensing: Scopes and Limitations
    David Lovett, ChBE
    Mentor: Miroslawa Josowicz, Chemistry

16  Zinc Activity Determination of 4-(2-pyridylidene)-1, 2-dimethyl-1H-imidazol-5(4H)-one
    Charles Song, Chemistry
    Mentor: Kril Solnstev, Chemistry

17  Abrupt Circulation Alterations before the Last Glacial Maximum
    Leonard Henry, EAS
    Mentor: Jean Lynch-Stieglitz, EAS

18  A Cascade of Length Scales in Elastic Rings under Confinement
    Kevin Spears, Math
    Mentor: Silas Alben, Math

19  Compact, Efficient IEC Fusion Reactor
    Andrew Seltzman, Physics
    Mentor: Chandra Raman, Physics
College of Sciences, continued

20 The Application of Simplification and Clifford Algebras to Modern Physical Theories
Sarang Shah, Physics
Mentor: David Ritz Finkelstein, Physics

College of Engineering

21 Technology Projection for Micro Renewable Energy Systems
Jason Bice, AE
Mentor: Narayanan Komerath, AE

22 1KW Solar Generator for the Global Market
Abhizna Butchibabu, AE
Mentor: Narayanan Komerath, AE

23 Micro Renewable Energy Generation: A Study of Stirling Engines
Christopher Lamberti, AE
Mentor: Narayanan Komerath, AE

24 Yard Waste to Methane
Matthew Layfield, AE
Mentor: Narayanan Komerath, AE

25 Modeling and Development of a Self-Starting Vertical-Axis Wind Turbine
Ranjit Mantri, AE
Ankit Tiwari, AE
Mentor: Narayanan Komerath, AE

26 Reduction of Particulate Emissions from Biomass Incineration
James Mesiona, AE
Mentor: Narayanan Komerath, AE
27 An Interaction Alignment Tool for Rotocraft Flowfield Measurements
Thomas Pappas, AE
Mentor: Narayanan Komerath, AE

28 High Intensity Solar Cell Integration in Terrestrial Systems
Kamalakannan Radharamanan, BME
Vigneshshwar Venkat, AE
Mentor: Narayanan Komerath, AE

29 Emission Spectroscopy of a Helicon Plasma
Lisa Stuber, AE
Mentor: Mitchell Walker, AE

30 Potential for Combining Biomass Energy Extraction with Other Concepts for Distributed Power Generation
Vigneshshwar Venkat, AE
Mentor: Narayanan Komerath, AE

31 Finding Biological Signals in Inhomogeneous Sequences by a Gibbs Sampler Algorithm
Marc Bruce, Chem
Mentor: Mark Borodovsky, BME

32 Quantifying Glutathionylation in Jurkat T Cells
Theodore Chen, BME
Mentor: Melissa Kemp, BME

33 Diagnosing Left Ventricular Dyssynchrony with Analysis of Heart Wall Thickening from Cardiac CT
Matthew Goette, BME
Mentor: John Oshinski, BME
College of Engineering, continued

34  Modeling and Assessment of Congenital Bicuspid Aortic Valve Fluid Dynamics
Ramya Parthasarathy, BME
Roy Rusly, BME
Mentor: Ajit Yoganathan, BME

35  Development of a Biochemical Assay to Quantify PKCθ
Karen Shih, BME
Mentor: Melissa Kemp, BME

36  Toxicity Review of Bio-Conjugated Quantum Dots for Cancer Treatment
Clarisse Tallah, BME
Mentors: May Wang, BME; Change Quo, BME

37  Effects of Stem-cell Derived Biomaterial on Cell Migration
James Waring, BME
Mentor: Todd McDevitt, BME

38  Mechanical Testing of Collagen-Based Blood Vessel Substitutes
Christa Caesar, BME
Alison Skala, ME
Yue Geng, Chemistry
Mentor: Rudy Gleason, ME

39  Real-time Pro-Active Work Zone Safety
Clare Fullerton, CEE
Matthew Winkler, CEE
Mentor: Jochen Teizer, CEE

40  Plasticity Indexes of Varying Clay Mixtures
Savannah Gowdy, CEE
Mentor: Laura Spencer, CEE; Glenn Rix, CEE

41  Development of a Microbial Fuel Cell
Jina Kang, ChBE
Mentor: Thomas Fuller, ChBE
42 Controlling Emulsion Stability with Colloidal Particles
   Adam Azaibi, ChBE
   Mentor: Sven Behrens, ChBE

43 Effects of Composite on the Mechanism of Formulation of
   Single-Walled Mixed-Oxide Nanotubes: A Dynamic Light
   Scattering Study
   Cintia Nojima, ChBE
   Mentor: Sankar Nair, ChBE

44 Ring-Opening a Pathway To a Renewable, Chemically
   Customizable Plastic
   Michael Nolan, ChBE
   Mentor: Christopher Jones, ChBE

45 Adsorption of Water on Single-Walled Aluminisilicate
   Nanotubes
   Ho Ming Tong, ChBE
   Mentor: Sankar Nair, ChBE

46 Neuronal Growth on Carbon Nanotubes
   Kirsten Kepple, BME
   Rodolfo Camacho-Aguilera, MSE
   Mentors: Jud Ready, GTRI; Vivek Mukhatyar, GTRI; Jack Flicker, GTRI

47 Vertically Aligned Carbon Nanotube Arrays as Field Emission
   Sources in Hall Effect Thrusters
   Victor Kumsomboone, MSE
   Mentor: Jud Ready, GTRI

48 Growth of Multiwalled Carbon Nanotubes on Carbon Fabric
   Philippe Lacasse, ChBE
   Mentor: Jud Ready, GTRI
49 Modeling and Simulation of the Impact Response of Filled and Unfilled Linear Cellular Alloys for Structural Energetic Material Applications
Adam Jakus, MSE
Mentor: Naresh Thadhani, MSE

50 Fabrication of Colloidal Crystal Rings
Victor Kumsomboone, MSE
Mentor: Valeria Milam, MSE

51 Effects of Mutations on DNA as a Biomaterials Assembly Tool
Sonya Parpart, BME
Mentor: Valeria Milam, MSE

52 Closed Gas Cycle Boundary Layer Turbine For Micro Renewable Power
Dustin Teuscher, AE
Pierre Valdez, AE
Mentor: Naresh Thadhani, MSE

53 Non-Destructive Evaluation of Precipitation-Hardened Superalloy Microstructures
Ricky Whelchel, MSE
Mentors: Rosario Gerhardt, MSE; G. Siva Kumar Kelekanjeri, MSE

54 Multi-agent Object detection and Localization
Melissa Watkins, ECE
Nicole Rennalls, EE
Mentor: Ayana Howard, ECE

55 The Effect of Robust Input Shapers on Bridge Crane Operator Performance
Jeffery Clement, ME
Mentor: Bill Singhose, ME

56 Effects of Input Shaping Delay on Operator Performance
Aayush Daftari, ME
Mentor: Bill Singhose, ME
College of Engineering, continued

57  Fretting In AISI Stainless Steel
    Matthew Fallacara, ME
    Mentor: Richard W. Neu, ME

58  Low-Overshoot Command Shaping for Decelerating Flexible Machines
    Jason Kulpe, ME
    Mentor: Bill Singhose, ME

59  Experimental Study of Input-Shaping in Mobile Tower Cranes
    Adrit Lath, ME
    Mentor: Bill Singhose, ME

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PURA

President’s Undergraduate Research Award

Fall 2008 Applications due May 19th

Apply for competitive $1500 salary awards or
up to $1000 funding to present your work at a professional conference
One-on-one work with a faculty mentor
Opportunities to discover new methods and techniques

Visit http://www.undergradresearch.gatech.edu/funding.php for more
information and application instructions.
# Oral Presentations

## Student Center, 3rd Floor

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<td>2:40 Danny Miller</td>
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<td>3:00 James Robinson</td>
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<td>3:20 Hafez Rouzati</td>
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<td>1:40 Yungchi Fan</td>
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<td>2:00 Chanchala Kaddi</td>
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<td>2:20 Leslie Chan &amp; Team</td>
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<td>2:40 David Lu</td>
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<td>3:00 Sydney Shaffer</td>
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<td>3:20 Martha Lesniewski</td>
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<td>2:00 Andy Bardagjy &amp; Team</td>
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<td>2:20 George Melcer</td>
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<td>2:40 Brandon Smith</td>
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<td>3:00 Hsin-Hsiao Ma</td>
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<td>3:20 Laura Hershberger</td>
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<td>3:40 Ryan Anderson</td>
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<tr>
<td>2:00 Nicole Fay</td>
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<td>3:00 Alan Penkar</td>
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<td>3:20 Kaylee Burnham</td>
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<td>3:40 Daniel Shorr</td>
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<tr>
<td>4:00 Lindsay Chatel</td>
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## Poster Presentations

### Student Center Ballroom

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<td>Stefka Gyoneva</td>
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<td>Ricky Whelchel</td>
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Recognitions

Special Thanks:

Ms. Fadrika Prather, UROP Project Coordinator
Ms. Savannah Gowdy, UROP Student Assistant
Faculty and Graduate Student Judges from the schools
Student Advisory Board for Undergraduate Research (SABUR)
Oral Session Moderators:
  Mr. Mitch Keller, Math
  Ms. Ann Blasick, DOPP
  Dr. Tris Utschig, CETL
  Dr. Karen Adams, Fellowship Communication Program
  Dr. Karen Head, CETL
Ms. Bethany Naser, FASET
Ms. Heather Smith, CETL
GT Student Center Staff
Ms. Beth Spencer, Undergraduate Studies
Ms. Nicole Leonard, Honors Program
Mr. Matt Erwin, Undergraduate Studies
Ms. Thania Cantave, Undergraduate Studies
Ms. Natasha Lawson, Undergraduate Studies
Ms. Sue Woolard, Assessment
Ms. Donna Riley, Assessment
Ms. Aleta Way, Graduate & Undergraduate Studies
Ms. Shawna Garcia, IBB

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Undergraduate Research Opportunities Program (UROP)
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Georgia Tech's Quality Enhancement Plan (QEP)