

Undergraduate Research Symposium

Symposium for Undergraduate Research, Scholarly, and Creative Activity

THURSDAY, APRIL 15, 2010 // PROGRAM





elcome to the third annual campus-wide Undergraduate Research Symposium. Once again this year, the great diversity and high quality of submissions have made for an excellent program. Showcased today are presentations and posters that remind us of how deeply Illinois students are involved in the university's mission to create and discover—and to do so on behalf of the larger public this institution serves.

If you choose to attend sessions and seek out posters on topics familiar to you, prepare to be surprised by innovation. I hope, too, that you will let yourself be drawn to topics about which you know very little. Challenge the presenters to help you understand why their work is relevant to you. You will be enlightened. And impressed, for I know you will sense, as I do, the passion that Illinois students feel for the research, scholarly, and creative activity in which they are engaged.

This passionate engagement in undergraduate research, broadly defined, is often supported by faculty, postdoctoral fellows, and advanced doctoral students. Browse the symposium's abstract book and you will find named the many mentors who guided this year's participants. I am most grateful for their effort.

To see a prime example of what happens when brilliant student researchers are generously mentored by faculty, please attend the symposium's featured session at the noon hour. Members of a student team affiliated with Engineers Without Borders will present on a research program that has resulted in safe drinking water for the people of Socorro, Guatemala. The team's mentors will be on hand to share their perspectives on how research opportunities can enhance the Illinois experience for undergraduates.

This year's symposium follows plans established by working groups that were convened by the Office of the Provost during the 2007–08 and 2008–09 academic years. Thanks once more to the faculty who led these groups: Professor Wojtek Chodzko-Zajko (Kinesiology and Community Health, AHS), Professor Jennifer Bernhard (Electrical and Computer Engineering, ENG), and Professor Wayne Pitard (Religion, LAS; and Spurlock Museum). This year, as in past years, an intern in the Office of the Provost provided invaluable support as plans for the symposium matured. Emily Pinheiro (Spanish, LAS; Chancellor's Scholar) deserves our warm appreciation.

The commitment to support undergraduate research is an important element of our Campus Strategic Plan. As part of that commitment, the Undergraduate Research Symposium has given increased visibility to longstanding collegiate and departmental investments in undergraduate research. It has also catalyzed interest in increasing access to undergraduate research opportunities where few existed before. Even as we face unprecedented challenges across campus, I trust that we will continue to recognize the value of inviting students to play significant roles in research, scholarly, and creative endeavors. The scope and quality of these endeavors distinguish Illinois as a world-class university, one where undergraduates are partners in receiving the education they will need to become leaders in the twenty-first century.

Richard Wheeler

Vice Chancellor for Academic Affairs (Interim)

EVENT OVERVIEW

THURSDAY, APRIL 15. 2010

Illini Union

9:30-10:30 a.m.	A Sessions: Oral Presentations (Illini Rooms A, B, C; Room 209; General Lounge, Room 210)
10:00-11:15 a.m.	PA Session: Morning Poster Presentations, Pine Lounge
10:30-11:00 a.m.	Refreshments, Pine Lounge
11:00 a.mNoon	B Sessions: Oral Presentations (Illini Rooms A, B, C; Room 209; General Lounge, Room 210)
Noon-1:00 p.m.	Lunch Available for Presenters, Attendees, and Mentors, Illini Rooms Foyer
12:10-12:20 p.m.	Remarks by Richard Wheeler, Vice Chancellor for Academic Affairs (Interim), Illini Room B
12:30-1:15 p.m.	Featured Session: "Optimization of Virus Removal through the Use of Iron- Amended Biosand Filters for Use in Socorro, Guatemala," Illini Room B
12:30-1:30 p.m.	Faculty Development Session: "Mentoring Undergraduate Research: What Does the Undergraduate Honors Thesis in Your Discipline Involve?" Illini Room C
1:30-2:45 p.m.	PB Session: Early Afternoon Poster Presentations, Pine Lounge
1:30-2:45 p.m. 1:30-2:30 p.m.	
	C Sessions: Oral Presentations (Illini Rooms A, B, C; Room 209;
1:30-2:30 p.m.	C Sessions: Oral Presentations (Illini Rooms A, B, C; Room 209; General Lounge, Room 210) D Sessions: Oral Presentations (Illini Rooms A, B, C; Room 209; General

Levis Faculty Center

4:30-6:30 p.m.	Illinois Scholars Undergraduate Research Program Poster Expo, Levis 2

ORAL PRESENTATIONS

A SESSIONS, 9:30-10:30 A.M.

Session A.1, Life Sciences I (Illini Room A)

9:30–9:45 a.m.	Towards determination of a membrane protein structure using solid state NMR: Expression and purification of Coq7, a quinone monooxygenase
	Elliott Brea, Senior, Biochemistry, LAS Lars Rikardsen, Junior, Chemistry, LAS Aranee Sivananthan, Sophomore, Biochemistry, LAS
9:45–10:00 a.m.	The role of salinity in the evolution of reproductive isolation in the euryhaline killifish species Lucania parva
	Arthur Rudolph, Senior, Integrative Biology, LAS
10:00–10:15 a.m.	N-cadherin deletion in POMC expressing cells leads to pituitary disorganization Rachel Fiddler, Senior, Biology, LAS
10:15–10:30 a.m.	Wheel running exercise delays extinction of conditioned place preference for cocaine in male C57BL/6J mice in association with impaired exercise-induced adult hippocampal neurogenesis Daniel Miller, Junior, Psychology, LAS

Session A.2, Negotiating Boundaries: Peace and Conflict (Illini Room B)

9:30–9:45 a.m.	Ethnic conflict and resolution in South Tyrol, Italy Megan Samelson, Senior, International Studies, LAS
9:45–10:00 a.m.	Territorial value in the Arab-Israeli conflict Daniel Flesch, Senior, Political Science and History
10:00–10:15 a.m.	The Islamic State or Daulah Islamiyyah: Understanding the philosophy behind it in comparison to the western concept of nation-state
	Mohd Shazani Masri , Senior, Political Science and Economics, LAS
10:15–10:30 a.m.	The insurgency paradox: Under what conditions do insurgencies end?
	Kyle Farver , Senior, Political Science, LAS, and Aerospace Engineering, ENG

Session A.3, The Sciences of Health (Illini Room C)

9:30–9:45 a.m.	Examining the predictors of alcohol and other drugs among adolescents
	Domonique Malebranche, Junior, Physiology, LAS
9:45–10:00 a.m.	An ecological analysis of food environments in the United States
	Alyssa Morris, Senior, Health Administration, AHS Beverly Allen, Senior, Health Administration, AHS Eric Lorek, Senior, Community Health, AHS

10:00–10:15 a.m.	Structural comparison of proteins from the H1N1 swine flu and other influenza strains	11:24–11:36 a.m.	Leveraging social networks for creative design
10.00 10.10 0.11.	Tristesse Jones, Senior, Crop Sciences, ACES		Christina Poon, Senior, Electrical Engineering, ENG
		11:36–11:48 p.m.	Free radical initiated self-healing materials
	Development and optimization of consumer-friendly DNAzyme sensor		Patrick McIntire, Senior, Economics, LAS
10:15–10:30 a.m.	kits for lead and uranium Julia Willett, Senior, Biochemistry	11:48 a.m.–Noon	Physical and chemical erosion studies of lithiated ATJ graphite
	and Human Nutrition, LAS		David Burns , Senior, Nuclear, Plasma, and Radiological Engineering, ENG
	Human Behavior and Health General Lounge, Room 210)	Session B.3, I	Health and Wellness (Illini Room C)
	Mapping the way to better healthcare		Vicious cycle of disease and disability: Protein-
9:30–10:30 a.m.	Nina Bryan, Junior, Community Health, AHS Kevin Fritz, Senior, Community Health, AHS Stephanie Shaw, Senior, Community Health, AHS	11:00–11:15 a.m.	energy malnutrition and its association with physical function, bone health, and quality of life in hemodialysis patients
	Faiza Yasin, Senior, Molecular and Cellular Biology, LAS		Stephanie Chirillo, Senior, Kinesiology, AHS
Session A.5,	Climate and Conflict (Room 209)		An undergraduate student-run mobile screening clinic for the uninsured in Champaign County, IL
	Climate and conflict?: An examination of climate change influence on societies through event-based coding	11:15–11:30 a.m.	Grant Reed, Senior, Molecular and Cellular Biology, LAS Kunal Patel, BS Dec. '09, Molecular and Cellular Biology, LAS
9:30–10:30 a.m. Max Alex	Max Knierim, Junior, Political Science and English, LAS Alex Sapone, Senior, Economics, LAS Michael Slana, Senior, Political Science, LAS	11:30–11:45 a.m.	School performance and wellness analysis of orphans and vulnerable children in Nyando District of Kenya
	Political Science 499A: Climate Change and Societal Stability		Daniel Brencic, Senior, Community Health, AHS
B SESSIONS.	11:00 A.M.–NOON	11:45 a.m.—Noon	Estimating the cost of emergency department overutilization by the uninsured
			Glenn Dickey, Senior, Economics, LAS
Session B.1, 1	Life Sciences II (Illini Room A)		
11:00–11:20 a.m.	Towards improving bioenergy crops: A comparison of photosynthetic rates and cold tolerance in Miscanthus		Communication and Media eral Lounge, Room 210)
	Adrienne Perkins, Senior, Integrative Biology Honors, LAS		I want to be a princess, too: Exploring the blackout of Disney's princesses and
	Forest soil sampling for soil	11:00–11:20 a.m.	controversies surrounding The Princess and the Frog and its effects on African American girls
11:20-11:40 a.m.	organic carbon and charcoal		Lena Foote, Senior, Media Studies, MDIA
	Caleb Brown, Senior, Forest Science, ACES		
11:40-Noon	The development of polymorphic simple sequence repeats (SSRs) for use in DNA fingerprinting of Miscanthus	11:20–11:40 a.m.	Framing mama: The representation of African American mothers in TV comedies from Good Times to The House of Payne
	Arthur Rudolph, Senior, Integrative Biology, LAS		Ashley Stone, Junior, Communications, LAS
Session B.2, 1	Engineering Sciences I (Illini Room B)	11:40 a.m.–Noon	If hip hop had a daughter: African American girls' everyday use of hip hop imagery and flow storytelling
	Plasma metastable density measurements:		Porshe Garner, Senior, Psychology, LAS
11:00–11:12 a.m.	Plasma assisted cleaning by metastable atom neutralization (PACMAN)	Session R 5 1	Human Behavior and
	Ivory Hill , Junior, Nuclear, Plasma, and Radiological Engineering, ENG		omes II (Room 209)
	Electrode surface conditions and coatings		Healthcare without a home
11:12–11:24 a.m.	affecting vacuum breakdown John Kionka, Junior, Political Science, LAS	11:00 a.m.—Noon	Megan Eiten, Senior, Community Health, AHS Michelle Hochwert, Senior, Community Health, AHS Raahat Ansari, Senior, Community Health, AHS

Raahat Ansari, Senior, Community Health, AHS

FEATURED SESSION 12:30-1:15 P.M. (ILLINI ROOM B)

Optimization of virus removal through the use of ironamended biosand filters for use in Socorro, Guatemala

Presentation by

Alicia Chuchro, Freshman, Civil and Environmental Engineering, ENG Saichaitanya Kalidindi, Freshman, Mechanical Engineering, ENG Sheila D. Markazi, Senior, Civil and Environmental Engineering, ENG Kimberly Parker, Junior, Civil and Environmental Engineering, ENG Anjli Patel, Junior, Civil and Environmental Engineering, ENG Anthony Straub, Junior, Civil and Environmental Engineering, ENG Vijesh Tanna, Freshman, Materials Science and Engineering, ENG

In 2007, the community of Socorro, Guatemala, approached the University of Illinois at Urbana-Champaign chapter of Engineers Without Borders (EWB-UIUC) with a request for a water treatment system. After multiple visits to the community, it was determined that a point-of-use treatment system would best serve the community. With the assistance of EWB-UIUC, the community of Socorro is currently implementing approximately 150 biosand filters. The EWB-UIUC Guatemala Water Project focuses on the development of iron-amended biosand filters, with the goal of increasing efficacy of virus removal in a practical manner. Initial results on small-scale columns indicate that sand columns yielded about 70% removal, whereas iron-amended columns yielded about 99.999-99.9999% removal. Presently, full-scale testing is being conducted to determine the effect of zero-valent iron on the removal of bacteria and viruses. This is the first comprehensive study of iron-amended biosand filters: from small-scale columns to full-scale filters. The results of this research will allow for the improvements of biosand filters worldwide, and will encourage the implementation of biosand filters in areas of the world where viruses are seen as a serious and daily threat.

Commentary on undergraduate research by

Professor T. H. Nguyen, Civil and Environmental Engineering, ENG **Professor Bruce Elliott Litchfield**, Assistant Dean, ENG

FACULTY DEVELOPMENT SESSION 12:30-1:15 P.M. (ILLINI ROOM C)

Mentoring undergraduate research: What does the undergraduate honors thesis in your discipline involve?

Organized by the Office of Campus Programs on Teaching and Learning

Professor Carol Symes, History, LAS

Professor Martin Manalansan, Anthropology and Asian American Studies, LAS Professor Synthia Sydnor, Kinesiology and Community Health, AHS

C SESSIONS, 1:30-2:30 P.M.

Session C.1, Interpreting Identity, Activism, and Change (Illini Room A)

1:30–1:45 p.m.	Then and now: Latino Greeks assess their social activism
	Daissy Dominguez, Senior, Political Science, LAS
1:45–2:00 p.m.	Sisterhood shaping adulthood: How sororities influence girls' adult life
	Rosie Mellor, Junior, Anthropology, LAS
2:00–2:15 p.m.	The evolution of identity in the digital era
	Joshua Hawthorne, Senior, Communication, LAS

2:15—2:30 p.m.	Angeline Sangalang, Junior, Communication, LAS Kate Ciancio, Junior, Psychology, LAS Amy Lindgren, Senior, Communication, LAS
0.45, 0.00	Got health behavior change?: An exploratory study of the processes and outcomes of exposure to an interactive game about drinking milk

Session C.2, Life Sciences III (Illini Room B)

1:30–2:00 p.m.	Viruses need love, too: An investigation of the effects of rapamycin on myxoma virus replication in established brain tumors Tiffani Berkel, Junior, Molecular and Cellular Biology, LAS
2:00–2:30 p.m.	Antibiotic synthesis and trial Grant Zimmerman, Junior, Specialized Curriculum in Biochemistry, LAS

Session C.3, Engineering Sciences II (Illini Room C)

1:30–1:42 p.m.	Molecular dynamics study of nanopore sequencing with MspA protein pore Hung Yu Ho, Junior, Engineering Physics, ENG
1:42–1:54 p.m.	Thin film deposition of Ta using a 200mm high power hollow cathode magnetron (HCM) Robert Looby, Junior, Engineering Physics, ENG Paul Mikols, Junior, Electrical Engineering, ENG
1:54–2:06 p.m.	Analysis of effects to aluminum from rapid exposure to extreme ultraviolet light Daniel Organ, Junior, Electrical Engineering, ENG
2:06–2:18 p.m.	Lasers and plasmas: The push for faster computing through debris measurement at the intermediate focus Piyum Zonooz, Junior, Nuclear, Plasma, and Radiological Engineering, ENG
2:18–2:30 p.m.	Wafer scale alignment of single- walled carbon nanotubes Vineet Nazareth, Senior, Electrical and Computer Engineering, ENG

Session C.4, English Studies Roundtable (General Lounge, Room 210)

	Negotiating the value of female sexuality in early 20th-century America Stephanie Sadler, Senior, English, LAS
	Hergesheimer and the twenties Miles Lincoln, Senior, English, LAS
	Illegal or immoral: Abortion and its discontents in early 20th-century literature Maggie Carrigan, Senior, English, LAS
1:30–2:30 p.m.	Invented languages Jeff Girten, Senior, English, LAS
	Disability in Harry Potter Amelia Wallrich, Senior, English, LAS
	Oscar Wilde and boy life Rebecca Finkel, Senior, English, LAS
	"I account all the rest either dreaming or madness": James Hogg's Justified Sinner as parody of reasoning through systems Stephanie Luke, Senior, English LAS

Session C.5, Staging and Structuring Experience (Room 209)

1:30–1:45 p.m.	Taking the lead: Dramatherapy in group treatment Alissa Norby, Junior, Theatre Studies, FAA
1:45–2:00 p.m.	Futurist and dadaist theatre: The First Celestial Adventure of Mr. Antipyrine Maxwell Goldberg, Senior, Theatre, FAA
2:00–2:15 p.m.	Architecture and the landscape: Entering the discourse Colby Suter, Junior, Architectural Studies, FAA
2:15–2:30 p.m.	The mass-production of individual experience at the Great Exhibition of 1851 Dana Szafranski, Senior, Art History, FAA

D SESSIONS, 3:00-4:00 P.M.

Session D.1, Doing Things with Numbers: Theory and Application (Illini Room A)

3:00–3:15 p.m.	It's not about what you know, it's about what you can prove: An investigation of the relationship between the Bernoulli numbers and the Kummer Congruences Robert Walker, Mathematics, LAS
3:15–3:30 p.m.	Arithmetic progression-free sequences created by a greedy algorithm Richard Moy, Senior, Mathematics, LAS
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3:30–3:45 p.m.	Housing premium puzzle: What really determines the return on your house?
	Matthew Miller, Senior, Economics, LAS

3:45–4:00 p.m.	Measuring the impact of credit risk on pricing agricultural commodity swaps by conducting empirical analysis
	Jung-Wook Kim , Senior, Accountancy, Finance, Management Science, BUS

Session D.2, Words and Images, Ancient and Modern (Illini Room B)

	New technologies for documenting cylinder seals from the Ancient Near East
3:00–3:15 p.m.	Trent Wright, Senior, Classical Civilization and Astronomy, LAS Jessica Diaz, Senior, Religion, LAS Craig Kreutzer, Senior, Religion, LAS
3:15–3:30 p.m.	A daughter for a son: Challenging gender roles in father/daughter relationships in Chicana feminist literature Brenda Rodriguez, Junior, English and Psychology, LAS
3:30–3:45 p.m.	Binary nature of photography in Cindy Sherman and Robert Longo Caitlin Harrington, Senior, Art History, LAS
3:45–4:00 p.m.	Lateralized apprehension of number at the intersection of language and perception Amanda Moncada, Senior, Psychology, LAS

Session D.3, Investigating Impacts of Identity and Ideology (Illini Room C)

3:00-3:15 p.m.	Retiring racism: The association between color-blind racial ideology and perceptions of "The Chief," a racialized university symbol
	Jeffrey Yeung, Senior, Psychology, LAS
3:15–3:30 p.m.	The role of color(ism) in the racial experiences of black women: An exploration of racial life narratives
	Amanda Long, Senior, Psychology, LAS
3:30–3:45 p.m.	Maternal stress: The role of single mothers' work conditions on preschool children's socio-emotional development Sarai Coba-Rodriguez, Senior, Sociology, LAS
	C C.
3:45–4:00 p.m.	The link to educational and socio- economic disparities
	Mauriell Amechi, Junior, Communication, LAS

Session D.4, Life Sciences IV (General Lounge, Room 210)

3:00—3:15 p.m.	Spatial and temporal analyses of the reproductive system in the regenerating planarian Schmidtea mediterranea
	Nina Hosmane, Junior, Molecular and Cellular Biology, LAS

3:15–3:30 p.m.	The phylogeography of bluefin and rainwater killifish through analysis of mtDNA, nuclear DNA, and microsatellite data
	Katherine Murphy, Senior, Integrative Biology Honors, LAS

Session D.5, Transnational Concerns, Then and Now (Room 209)

3:00–3:20 p.m.	Between war and peace: The competing extremisms of Osama bin Laden and Amr Khaled Jennifer Hughes, Senior, International Studies, LAS
3:20–3:40 p.m.	Corruption in post-Soviet nations: An analysis of countries in transition Katherine Robillard, Senior, Political Science and Psychology, LAS
3:40-4:00 p.m.	Social group conflict across the globe: Trends and patterns in the post-WWII era Jared Hall, Junior, Political Science and Linguistics, LAS Erica Mazzotti, Senior, English, LAS Joseph Guinta, Junior, International Studies, LAS

POSTER PRESENTATIONS

PA SESSION: MORNING POSTER PRESENTATIONS

10:00-11:15 A.M. (PINE LOUNGE)

PA.01	Withdrawn
PA.02	Modern game environment for nuclear engineering education
	Lewis Conley , Junior, Nuclear, Plasma, and Radiological Engineering, ENG
PA.03	Ethical implications of HPV vaccination
FA.03	Haley Filinson, Senior, Nursing, NURS
PA.04	Differential habituation to negative stimuli distinguishes types of anxiety
	Angeline De Leon, Senior, Psychology, LAS
PA.05	Effects of intradialytic cycling on physical performance and cardiovascular disease risk in hemodialysis patients
	Krysta M. Peters, Senior, Community Health, AHS
PA.06	Evaluating consumer medication information from a health literacy perspective
	Marielva Ayala, Senior, Community Health, AHS
	Frozen in time: Case study of a
PA.07	Siberian one-company town
	Jonas Vaicikonis, Senior, International Studies, LAS
PA.08	Revisiting an old prophesy: Marxist perspectives on economic globalization
	Dotan Haim, Junior, Political Science and Philosophy, LAS

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PA.09	BackPack program evaluation
	Terra Kern, Senior, Human Development and Family Studies, ACES
	Native structure and folding dynamics of phosphoglycerate kinase are
PA.10	strongly perturbed by crowding
	Tripta Mishra, Senior, Specialized Chemistry, LAS
	Trial of molecular diagnosis in one
PA.11	case of Anderson's Disease
	Julie McDaniel, Junior, Pre-medicine and Finance, BUS
	Computational FTIR microspectroscopy to
PA.12	simulate spectral shifts in epithelium and stromal tissues as a function of sample thickness
	Andrew Lee, Junior, Bioengineering, ENG
	Exploring negativity in presidential campaign
PA.13	advertisements from the past to the present
	Gregory Hart, Senior, Political Science, LAS
	Dimensions of a school climate and their effect
PA.14	on students' perceptions of school safety
	Jameese Sykes, Senior, Psychology, LAS
	Longitudinal associations between peer
PA.15	victimization and perceptions of self and peers: Moderation by depression
	Nicole Babuskow, Senior, Psychology, LAS
	Hydropolitics: The international water
PA.16	transfers and commodification
	Felipe Westhelle, Senior, International Studies, LAS
PA.17	The universality of international human rights treaties
173.17	Katherine H. Hapeman, Senior, Political Science, LAS
	The effects of generic language on
PA.18	views of intelligence stability
	Caitlin Carmichael, Senior, Psychology, Molecular and Cellular Biology, LAS
	Marital satisfaction and parenting in terms
PA.19	of autonomy-support and control
-	Andrea Gavidia, Senior, Psychology, LAS
	Validation of Raman enhancement
PA.20	within multilayered nanoshells
	Pratik Shailesh Randeria, Senior, Bioengineering, ENG
	The OECD Guidelines for Multinational Enterprises
PA.21	chapter on the environment: The importance of non-state involvement in environmental initiatives
	Toni Funk, Senior, International Studies, LAS
	Direct-write assembly of 3D
PA.22	periodic ceramic structures
	Ashley Gupta, Senior, Chemistry, LAS
	Mealtime behavioral control level in
PA.23	relationship to child body mass index
	Dontina Corpus , Senior, Human Development and Family Studies, ACES
	and raining studies, ACES

PA.24	Extraction and recovery of lipids and valuable co-products from high moisture algal biomass using ethanol-based solvents Derek Vardon, Senior, Civil and Environmental Engineering, ENG
PA.25	Upper respiratory infections in felines at the Champaign County Humane Society in relation to door knob sanitation
	Kristen Knight, Senior, Animal Sciences, ACES
PA.26	Monoclonal antibody production and optimization Forrest Waters, Senior, Molecular and Cellular Biology, LAS
PA.27	The Super Bowl: What are we really watching? Matthew R. Heberer, Senior, Community Health, AHS Hazel Oza, Junior, Community Health, AHS Kara Martin, Senior, Community Health, AHS Renee Durack, Senior, Community Health, AHS Elle Thermos, Senior, Community Health, AHS Rachelle Tulley, Senior, Community Health, AHS
	Chris Wang, Senior, Community Health, AHS Erica Kilby, Senior, Community Health, AHS
PA.28	Biocompatible flexible polymers and cellular growth Radu Lazar, Sophomore, Bioengineering, ENG

PB SESSION: AFTERNOON POSTER PRESENTATIONS

1:30-2:45 P.M. (PINE LOUNGE)

PB.01	Islamist parties and secular politics: The secularization of Islamist policy
	Nicholas Heller, Senior, Political Science, LAS
PB.02	Child care nutrition and feeding contents-related oral health regulations comparative to U.S. standards
	Sonny Song, Sophomore, Undeclared, DGS
DD 00	Characterization of RNA regulators in Escherichia coli for the construction of a bacterial decoder
PB.03	Francis Lee, Junior, Molecular and Cellular Biology, LAS Steve Waltersdorf , Junior, Molecular and Cellular Biology, LAS
PB.04	Risk factors for the development of type 2 diabetes in children: A modified integrative literature
	Katie Valentino, Senior, Nursing, NURS
PB.05	Physicians' and nurses' opinions on neonatal end-of- life care: A modified integrative literature review
	Samantha Friedman, Senior, Nursing, NURS
PB.06	The effects of breast cancer treatment- related fatigue on quality of life
	Emily Stonecipher, Senior, Nursing, NURS
PB.07	3-D virtual environments for improved training at nuclear power plants
	Zachary D. Kriz , Junior, Nuclear, Plasma, and Radiological Engineering, ENG Imran Haddish , Freshman, Nuclear Plasma, and Radiological Engineering, ENG

PB.09 Healthy meals for weight loss at fast food restaurants Alexandra Ginos, Senior, Dietetics, ACES The effects of parenting behaviors on youth mental health: Urban Mexican-Americans in the context of violence Alethea Merelos, Psychology and Spanish, LAS Plasma deposition with high ionization fraction Peter Fiflis, Sophomore, Nuclear, Plasma, and Radiological Engineering, ENG Acute behavioral impairment and microglial activation in the hippocampus in response to peripheral influenza infection Kaushik Amancherla, Senior, Molecular and Cellular Biology, LAS Imposed constitutions: Enduring the long run Leah Fontenot, Senior, Political Science, LAS The growing struggle: Labor conditions in developing nations Valeric Johnston, Senior, Political Science, LAS Childhood obesity: Children's fruit and vegetable intake in relation to parents' income and consideration of price when buying food Lisa Ann Pearson, Junior, Community Health, AHS Attention allocation for improved emotion recognition in individuals with autism Miriam R. Holtzman, Senior, Psychology, LAS Development of adolescent self- concept in American children Abby Toms, Senior, Psychology, LAS Cracking the cellulose code with super solvents; Cellulase assay of lignocellulosic biomass and evaluation of recycled ionic liquid dissolution properties Anna Lucrezia Oldani, Sophomore, Agricultural and Biological Engineering, ENG The relevance of parenting to psychopathic emotion Andrew D. Gill, Senior, Psychology, LAS Lipogenic gene regulation in fatty acid deficient mice Tyler Harpole, Senior, Food Science and Human Nutrition, ACES, and Molecular and Cellular Biology, LAS The draft in the winds of war Sara Brown, Senior, Political Science, LAS Vocabulary and phonological growth in a young child with Childhood Apraxia of Speech (CAS) Kristin Lyons, Senior, Speech and Hearing Science, AHS	PB.08	Attitude and opinion of undergraduate students at UIUC regarding climate change and sustainability issues
PB.10 Alexandra Ginos, Senior, Dietetics, ACES The effects of parenting behaviors on youth mental health: Urban Mexican-Americans in the context of violence Alethea Merelos, Psychology and Spanish, LAS Plasma deposition with high ionization fraction PB.11 Peter Fiflis, Sophomore, Nuclear, Plasma, and Radiological Engineering, ENG Acute behavioral impairment and microglial activation in the hippocampus in response to peripheral influenza infection Kaushik Amancherla, Senior, Molecular and Cellular Biology, LAS Imposed constitutions: Enduring the long run Leah Fontenot, Senior, Political Science, LAS The growing struggle: Labor conditions in developing nations Valerie Johnston, Senior, Political Science, LAS Childhood obesity: Children's fruit and vegetable intake in relation to parents' income and consideration of price when buying food Lisa Ann Pearson, Junior, Community Health, AHS Attention allocation for improved emotion recognition in individuals with autism Miriam R. Holtzman, Senior, Psychology, LAS Development of adolescent self-concept in American children Abby Toms, Senior, Psychology, LAS Cracking the cellulose code with super solvents; Cellulase assay of lignocellulosic biomass and evaluation of recycled ionic liquid dissolution properties Anna Lucrezia Oldani, Sophomore, Agricultural and Biological Engineering, ENG Sidney Knight, Junior, Agricultural and Biological Engineering, ENG PB.19 The relevance of parenting to psychopathic emotion Andrew D. Gill, Senior, Psychology, LAS Lipogenic gene regulation in fatty acid deficient mice Tyler Harpole, Senior, Food Science and Human Nutrition, ACES, and Molecular and Cellular Biology, LAS Vocabulary and phonological growth in a young child with Childhood Apraxia of Speech (CAS)		Serena Gountanis, Junior, Mathematics and Geology, LAS
PB.10 youth mental health: Urban Mexican- Americans in the context of violence Alethea Merelos, Psychology and Spanish, LAS Plasma deposition with high ionization fraction Peter Fiffis, Sophomore, Nuclear, Plasma, and Radiological Engineering, ENG Acute behavioral impairment and microglial activation in the hippocampus in response to peripheral influenza infection Kaushik Amancherla, Senior, Molecular and Cellular Biology, LAS PB.13 Imposed constitutions: Enduring the long run Leah Fontenot, Senior, Political Science, LAS The growing struggle: Labor conditions in developing nations Valerie Johnston, Senior, Political Science, LAS Childhood obesity: Children's fruit and vegetable intake in relation to parents' income and consideration of price when buying food Lisa Ann Pearson, Junior, Community Health, AHS Attention allocation for improved emotion recognition in individuals with autism Miriam R. Holtzman, Senior, Psychology, LAS Development of adolescent self- concept in American children Abby Toms, Senior, Psychology, LAS Cracking the cellulose code with super solvents; Cellulase assay of lignocellulosic biomass and evaluation of recycled ionic liquid dissolution properties Anna Lucrezia Oldani, Sophomore, Agricultural and Biological Engineering, ENG Sidney Knight, Junior, Agricultural and Biological Engineering, ENG Sidney Knight, Junior, Agricultural and Biological Engineering, ENG PB.19 The relevance of parenting to psychopathic emotion Andrew D. Gill, Senior, Psychology, LAS Lipogenic gene regulation in fatty acid deficient mice Tyler Harpole, Senior, Food Science and Human Nutrition, ACES, and Molecular and Cellular Biology, LAS The draft in the winds of war Sara Brown, Senior, Political Science, LAS Vocabulary and phonological growth in a young child with Childhood Apraxia of Speech (CAS)	PB.09	•
PB.11 Plasma deposition with high ionization fraction Peter Fiflis, Sophomore, Nuclear, Plasma, and Radiological Engineering, ENG Acute behavioral impairment and microglial activation in the hippocampus in response to peripheral influenza infection Kaushik Amancherla, Senior, Molecular and Cellular Biology, LAS Imposed constitutions: Enduring the long run Leah Fontenot, Senior, Political Science, LAS The growing struggle: Labor conditions in developing nations Valerie Johnston, Senior, Political Science, LAS Childhood obesity: Children's fruit and vegetable intake in relation to parents' income and consideration of price when buying food Lisa Ann Pearson, Junior, Community Health, AHS Attention allocation for improved emotion recognition in individuals with autism Miriam R. Holtzman, Senior, Psychology, LAS Development of adolescent self- concept in American children Abby Toms, Senior, Psychology, LAS Cracking the cellulose code with super solvents; Cellulase assay of lignocellulosic biomass and evaluation of recycled ionic liquid dissolution properties Anna Lucrezia Oldani, Sophomore, Agricultural and Biological Engineering, ENG Sidney Knight, Junior, Agricultural and Biological Engineering, ENG PB.19 The relevance of parenting to psychopathic emotion Andrew D. Gill, Senior, Psychology, LAS Lipogenic gene regulation in fatty acid deficient mice Tyler Harpole, Senior, Food Science and Human Nutrition, ACES, and Molecular and Cellular Biology, LAS The draft in the winds of war Sara Brown, Senior, Political Science, LAS Vocabulary and phonological growth in a young child with Childhood Apraxia of Speech (CAS)	PB.10	youth mental health: Urban Mexican-
PB.11 Peter Fiflis, Sophomore, Nuclear, Plasma, and Radiological Engineering, ENG Acute behavioral impairment and microglial activation in the hippocampus in response to peripheral influenza infection Kaushik Amancherla, Senior, Molecular and Cellular Biology, LAS Imposed constitutions: Enduring the long run Leah Fontenot, Senior, Political Science, LAS The growing struggle: Labor conditions in developing nations Valerie Johnston, Senior, Political Science, LAS Childhood obesity: Children's fruit and vegetable intake in relation to parents' income and consideration of price when buying food Lisa Ann Pearson, Junior, Community Health, AHS Attention allocation for improved emotion recognition in individuals with autism Miriam R. Holtzman, Senior, Psychology, LAS Development of adolescent self-concept in American children Abby Toms, Senior, Psychology, LAS Cracking the cellulose code with super solvents; Cellulase assay of lignocellulosic biomass and evaluation of recycled ionic liquid dissolution properties Anna Lucrezia Oldani, Sophomore, Agricultural and Biological Engineering, ENG Sidney Knight, Junior, Agricultural and Biological Engineering, ENG PB.19 The relevance of parenting to psychopathic emotion Andrew D. Gill, Senior, Psychology, LAS Lipogenic gene regulation in fatty acid deficient mice Tyler Harpole, Senior, Food Science and Human Nutrition, ACES, and Molecular and Cellular Biology, LAS The draft in the winds of war Sara Brown, Senior, Political Science, LAS Vocabulary and phonological growth in a young child with Childhood Apraxia of Speech (CAS)		Alethea Merelos, Psychology and Spanish, LAS
PB.12 Acute behavioral impairment and microglial activation in the hippocampus in response to peripheral influenza infection Kaushik Amancherla, Senior, Molecular and Cellular Biology, LAS Imposed constitutions: Enduring the long run Leah Fontenot, Senior, Political Science, LAS The growing struggle: Labor conditions in developing nations Valeric Johnston, Senior, Political Science, LAS Childhood obesity: Children's fruit and vegetable intake in relation to parents' income and consideration of price when buying food Lisa Ann Pearson, Junior, Community Health, AHS Attention allocation for improved emotion recognition in individuals with autism Miriam R. Holtzman, Senior, Psychology, LAS Development of adolescent self-concept in American children Abby Toms, Senior, Psychology, LAS Cracking the cellulose code with super solvents; Cellulase assay of lignocellulosic biomass and evaluation of recycled ionic liquid dissolution properties Anna Lucrezia Oldani, Sophomore, Agricultural and Biological Engineering, ENG Sidney Knight, Junior, Agricultural and Biological Engineering, ENG The relevance of parenting to psychopathic emotion Andrew D. Gill, Senior, Psychology, LAS Lipogenic gene regulation in fatty acid deficient mice Tyler Harpole, Senior, Food Science and Human Nutrition, ACES, and Molecular and Cellular Biology, LAS The draft in the winds of war Sara Brown, Senior, Political Science, LAS Vocabulary and phonological growth in a young child with Childhood Apraxia of Speech (CAS)		Plasma deposition with high ionization fraction
PB.12 activation in the hippocampus in response to peripheral influenza infection Kaushik Amancherla, Senior, Molecular and Cellular Biology, LAS Imposed constitutions: Enduring the long run Leah Fontenot, Senior, Political Science, LAS The growing struggle: Labor conditions in developing nations Valerie Johnston, Senior, Political Science, LAS Childhood obesity: Children's fruit and vegetable intake in relation to parents' income and consideration of price when buying food Lisa Ann Pearson, Junior, Community Health, AHS Attention allocation for improved emotion recognition in individuals with autism Miriam R. Holtzman, Senior, Psychology, LAS Development of adolescent self-concept in American children Abby Toms, Senior, Psychology, LAS Cracking the cellulose code with super solvents; Cellulase assay of lignocellulosic biomass and evaluation of recycled ionic liquid dissolution properties Anna Lucrezia Oldani, Sophomore, Agricultural and Biological Engineering, ENG Sidney Knight, Junior, Agricultural and Biological Engineering, ENG The relevance of parenting to psychopathic emotion Andrew D. Gill, Senior, Psychology, LAS Lipogenic gene regulation in fatty acid deficient mice PB.20 Tyler Harpole, Senior, Food Science and Human Nutrition, ACES, and Molecular and Cellular Biology, LAS Vocabulary and phonological growth in a young child with Childhood Apraxia of Speech (CAS)	PB.11	*
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PB.16 recognition in individuals with autism Miriam R. Holtzman, Senior, Psychology, LAS Development of adolescent self- concept in American children Abby Toms, Senior, Psychology, LAS Cracking the cellulose code with super solvents; Cellulase assay of lignocellulosic biomass and evaluation of recycled ionic liquid dissolution properties Anna Lucrezia Oldani, Sophomore, Agricultural and Biological Engineering, ENG Sidney Knight, Junior, Agricultural and Biological Engineering, ENG PB.19 The relevance of parenting to psychopathic emotion Andrew D. Gill, Senior, Psychology, LAS Lipogenic gene regulation in fatty acid deficient mice Tyler Harpole, Senior, Food Science and Human Nutrition, ACES, and Molecular and Cellular Biology, LAS The draft in the winds of war Sara Brown, Senior, Political Science, LAS Vocabulary and phonological growth in a young child with Childhood Apraxia of Speech (CAS)		Lisa Ann Pearson, Junior, Community Health, AHS
PB.17 Development of adolescent self- concept in American children Abby Toms, Senior, Psychology, LAS Cracking the cellulose code with super solvents; Cellulase assay of lignocellulosic biomass and evaluation of recycled ionic liquid dissolution properties Anna Lucrezia Oldani, Sophomore, Agricultural and Biological Engineering, ENG Sidney Knight, Junior, Agricultural and Biological Engineering, ENG PB.19 The relevance of parenting to psychopathic emotion Andrew D. Gill, Senior, Psychology, LAS Lipogenic gene regulation in fatty acid deficient mice PB.20 Tyler Harpole, Senior, Food Science and Human Nutrition, ACES, and Molecular and Cellular Biology, LAS The draft in the winds of war Sara Brown, Senior, Political Science, LAS Vocabulary and phonological growth in a young child with Childhood Apraxia of Speech (CAS)	PB.16	,
PB.17 concept in American children Abby Toms, Senior, Psychology, LAS Cracking the cellulose code with super solvents; Cellulase assay of lignocellulosic biomass and evaluation of recycled ionic liquid dissolution properties Anna Lucrezia Oldani, Sophomore, Agricultural and Biological Engineering, ENG Sidney Knight, Junior, Agricultural and Biological Engineering, ENG PB.19 The relevance of parenting to psychopathic emotion Andrew D. Gill, Senior, Psychology, LAS Lipogenic gene regulation in fatty acid deficient mice PB.20 Tyler Harpole, Senior, Food Science and Human Nutrition, ACES, and Molecular and Cellular Biology, LAS The draft in the winds of war Sara Brown, Senior, Political Science, LAS Vocabulary and phonological growth in a young child with Childhood Apraxia of Speech (CAS)		Miriam R. Holtzman, Senior, Psychology, LAS
PB.18 Cracking the cellulose code with super solvents; Cellulase assay of lignocellulosic biomass and evaluation of recycled ionic liquid dissolution properties Anna Lucrezia Oldani, Sophomore, Agricultural and Biological Engineering, ENG Sidney Knight, Junior, Agricultural and Biological Engineering, ENG The relevance of parenting to psychopathic emotion Andrew D. Gill, Senior, Psychology, LAS Lipogenic gene regulation in fatty acid deficient mice Tyler Harpole, Senior, Food Science and Human Nutrition, ACES, and Molecular and Cellular Biology, LAS The draft in the winds of war Sara Brown, Senior, Political Science, LAS Vocabulary and phonological growth in a young child with Childhood Apraxia of Speech (CAS)	PB.17	
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Engineering, ENG Sidney Knight, Junior, Agricultural and Biological Engineering, ENG The relevance of parenting to psychopathic emotion Andrew D. Gill, Senior, Psychology, LAS Lipogenic gene regulation in fatty acid deficient mice Tyler Harpole, Senior, Food Science and Human Nutrition, ACES, and Molecular and Cellular Biology, LAS The draft in the winds of war Sara Brown, Senior, Political Science, LAS Vocabulary and phonological growth in a young child with Childhood Apraxia of Speech (CAS)	PB.18	Cellulase assay of lignocellulosic biomass and
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Andrew D. Gill, Senior, Psychology, LAS Lipogenic gene regulation in fatty acid deficient mice PB.20 Tyler Harpole, Senior, Food Science and Human Nutrition, ACES, and Molecular and Cellular Biology, LAS The draft in the winds of war Sara Brown, Senior, Political Science, LAS Vocabulary and phonological growth in a young child with Childhood Apraxia of Speech (CAS)		
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PB.20 Tyler Harpole, Senior, Food Science and Human Nutrition, ACES, and Molecular and Cellular Biology, LAS The draft in the winds of war Sara Brown, Senior, Political Science, LAS Vocabulary and phonological growth in a young child with Childhood Apraxia of Speech (CAS)		Lipogenic gene regulation in fatty acid deficient mice
PB.21 Sara Brown, Senior, Political Science, LAS Vocabulary and phonological growth in a young PB.22 child with Childhood Apraxia of Speech (CAS)	PB.20	Tyler Harpole, Senior, Food Science and Human Nutrition,
Sara Brown, Senior, Political Science, LAS Vocabulary and phonological growth in a young PB.22 child with Childhood Apraxia of Speech (CAS)		The draft in the winds of war
PB.22 child with Childhood Apraxia of Speech (CAS)	PB.21	Sara Brown, Senior, Political Science, LAS
	PB.22	
		Kristin Lyons, Senior, Speech and Hearing Science, AHS

DD 22	BMI distribution of Cohort 1a	PC.02	Salty piece in fuel puzzle: Comparing the pretreatment of lignocellulosic biomass in ionic liquids and deep eutectic solvents
PB.23	Hannah Roosevelt, Senior, Dietetics, ACES		
PB.24	Complementary feeding practices among low-income mothers	F C.02	Sidney Knight, Senior, Agricultural and Biological Engineering, ACES
	Dennise Staab, Junior, Community Health, AHS		Multicultural influences and perceptions of
PB.25	Nutrition education	PC.03	stuttering and their appreciation in therapy
	Ana Ristich, Senior, Food Science and Human Nutrition, ACES		Adetutu Ogundare, Senior, Speech and Hearing Science, AHS
PB.26	Withdrawn	PC.04	Transfer of large-area graphene to SiO_2 substrates
PB.27	Separation, alignment and deposition of carbon-based nanomaterials	PC.05	Tomasz Kalbarczyk, Junior, Computer Engineering, ENG Degradation of myelination in the
	Charishma Puliyanda, Senior, Electrical Engineering, ENG		genu: A study of aging
PB.28	When the money does not matter		Gene Yu, Junior, Bioengineering, ENG
Г Б.20	Jason Gluskin, Senior, Political Science and History, LAS	PC.06	China's wild wild West
PB.29	Perceptual load-induced local competitive interactions across visual quadrants		Joann Wong, Senior, Political Science, LAS Age-related changes in alpha-endosulfine an
1 0.20	Andrew Brown, Senior, Psychology, LAS	PC.07	Age-related changes in alpha-endosulfine, an endogenous K-ATP channel modulator
55.00	Physical fitness and cognition of		Kaleigh Roberts, Senior, Bioengineering, ENG
PB.30	elementary school children Lauren Fraczek, Senior, Kinesiology, AHS	50	The influence of mentoring on pro-social behavior: Applying social bond and social
PB.31	Children's use of verb tense and aspect as a cue to generic meaning	PC.08	Lara M. Meyer, Senior, Sociology, LAS
	Trent Meltzer, Senior, Psychology, LAS		Stacia Miksys, Senior, Sociology, LAS
	Family mealtimes: An observational study of parental prompts and its influence on child compliance to eat	PC.09	Expression analysis of miRNA families in various Miscanthus x giganteus organs
PB.32	Jessica Dosik, Senior, Human Development		Ornella Wa Ngamboma, Junior, Molecular and Cellular Biology, LAS
	and Family Studies, ACES	PC.10	Informal mentors, civic engagement, and juvenile delinquency: Using social bond theory to
PB.33	Electrophysiological investigation of effects of extracellular administration of D-amino acids in neurons of Aplysia californica		understand youth pro-social and antisocial activity Snehalatha Gantla, Senior, English, LAS Kalam Andre Spring Springer LAS
	Lee Replogle, Senior, Molecular and Cellular Biology, LAS		Kelsey Antle, Senior, Sociology, LAS
PB.34	"Being white in a multicultural society": Understanding whiteness in an intergroup dialogue	PC.11	The role of father-adolescent relationships in Mexican-origin girls' adjustment in the context of mother-adolescent relationships
1 0.04	Jeffrey Yeung, Senior, Psychology, LAS		Rebecca Lara, Senior, Psychology, LAS
PB.35	Electrostatic transfer of monolayer graphene grown on copper foil		This is it: Jazz! Locales and experiential definitions of jazz in Urbana-Champaign
1 D.00	Roshan Choxi, Senior, Computer Engineering, ENG	PC.12	Laura Margaret Lynch, Junior, Sociocultural
	Classification of mucin chemotypes using FTIR		and Linguistic Anthropology, LAS
PB.36	Caroline Cvetkovic, Junior, Bioengineering, ENG	PC.13	Regulation of cAMP concentration and protein kinase
			A activity by β -adrenergic receptor activated adenylyl cyclase and phosphodiesterase in cardiac myocytes
PC SES	SION: AFTERNOON POSTER PRESENTATIONS,		Dawen Zhang, Senior, Bioengineering, ENG
B:15 –4 :	30 P.M. (PINE LOUNGE)	DC 14	Engineering multilayered nanospheres for tailored optical responses
PC.01	Twelve-month-olds' expectations about adults' responses to distress	PC.14	Rohun Palekar, Bioengineering, ENG
	Jessica Houston, Senior, Psychology, LAS	PC.15	Discourse performance across time in individuals with acquired neurogenic communication disorders
			Megan Dean, Senior, Speech and Hearing Science, AHS Laura Savicki, Senior, Speech and Hearing Science, AHS

		ISUR POSTER EXPO	
PC.16	Health-related quality of life for persons with graph- versus-host disease post-hematopoietic stem cell transplant through non-pharmacologic means	4:30-6:30 P.M., (LEVIS FACULTY CENTER)	
	Nadia Froehling, Senior, Nursing, NURS	Illinois Scholars Undergraduate Research Program Poster Expo, Levis, 2nd Floor	
PC.17	Augmentative and alternative communication (AAC) use in schools	The Illinois Scholar Undergraduate Research (ISUR) Program is a yearlong experience for engineering students. It is generously funded by the Semiconductor Research Corporation and BP. Through this program, undergraduate scholars are offered a unique opportunity to expand their academic experience beyond the walls of the traditional classroom. Students are introduced to research	
	Lisa Mellman, Senior, Speech and Hearing Science, AHS		
PC.18	Visual target distance in bowling Andrew Kickertz, Kinesiology, General Engineering, AHS		
	G, C C	by working closely with graduate mentors and faculty in complex	
PC.19	Economic conditions as a factor in terrorism: Egypt, 2004–2006	research projects. Each year the undergraduate scholars present findings at a poster expo. The expo is open to the public.	
	Mary Sloan, Senior, International Studies, LAS		
DO 00	Production of transparent conductors	Interface characteristics of microporus and non-microporus hydroxyapatite	
PC.20	Leigh Kesler, Sophomore, Nuclear, Plasma, and Radiological Engineering, ENG	Heather August, Bioengineering, ENG	
	The impact of home literacy environments and	Self-sealing fiber-reinforced composites	
PC.21	familial support on childhood writing disorders	Elizabeth Buzzard, Materials Science and Engineering, ENG	
	Anne Capron, Senior, Speech and Hearing Science, AHS	Distinguishing bone and hydroxyapatite scaffold from	
PC.22	Thermoelectric magnetohydrodynamic driven flows in liquid metals	micro-computed tomography data for evaluation of healing in bone tissue engineering	
	Matthew Lee, Senior, Molecular and Cell Biology, LAS	Michael Carrasquilla, Aerospace Engineering, ENG	
PC.23	Algae biofuels project	Analysis and design of a broadband highly reflective subwavelength grating mirror	
	Alex Valvassori, Junior, Chemistry and Earth Systems, Environment, and Society, LAS	Jared Carter, Electrical Engineering, ENG	
	Oliver Hui, Agricultural and Biological Engineering, ENG Anna Oldani, Agricultural and Biological Engineering, ENG	Quantification of bone ingrowths for bone tissue engineering Kaile Chen, Materials Science and Engineering, ENG	
	Perceptions and outcomes of the 2010 Olympic bidding process: A historical and cultural	Synthesis of complex oxide multiferroics	
PC.24	interpretation of Chicago's attempt to bring the 2016 Summer Olympics to Chicago	Amber Choquette, Materials Science and Engineering, ENG	
	Reid Behrens, Senior, International Studies, LAS	The electrostatic transfer of graphene grown up on copper substrate	
DC 25	Medical conditions among clients using a free health center	Roshan Choxi, Electrical Engineering, ENG	
PC.25	Crystal Amoah, Community Health, AHS	Optimization of PDMS for microfluidic devices	
	When can the people govern?	Kaitlin Clapper, Chemical Engineering, LAS	
PC.26	Joshua Feiger, Senior, Political Science, LAS	Using Markov Random Fields to classify point clouds	
	Disability relevant design	Elizabeth Cleveland, Statistics and Computer Science, LAS	
PC.27	Wan Choi, Freshman, Undeclared, DGS Jackie Braemer, Sophomore, Painting, Art + Design, FAA	Understanding the mechanical behavior of cellular solid food model system	
	Automated histopathology by FT-IR	Christina Coles, Chemical Engineering, LAS	
PC.28	imaging of stained breast tissue	Classification of mucin chemotypes using FTIR	
	Lauren Sheehy, Sophomore, Bioengineering, ENG	Caroline Cvetkovic, Bioengineering, ENG	
PC.29	Optimization of DNA extraction and collection in STRONG Kids Project	Global analysis of human brain disease transcriptome to identify disease-specific molecular signatures	
	Jill Jozefowicz, Senior, Human Nutrition, ACES	Alisha Gryniewicz, General Engineering, ENG	
	Anthony Wang, Graduate Student, Nutritional Sciences, ACES Yingying Wang, Graduate Student, Nutritional Sciences, ACES	Assisted cleaning by metastable atom neutralization (PACMAN)	
PC.30	Effects of plyometric and sensorimotor training on neck muscle electromyography: A pilot investigation	Ivory Hill, Nuclear, Plasma, and Radiological Engineering, ENG	
	Tyler Surma, Senior, Kinesiology, AHS	Financial risk analysis with distributed GPGPUs Stan Idesis, Electrical Engineering, ENG	

Leveraging social networks for creative design

Christina Poon, Electrical Engineering, ENG

Separation, alignment and deposition of carbon-based nanomaterials

Charishma Puliyanda, Electrical Engineering, ENG

Eigenbot: An adaptive control platform

Fawwaz Qayyum, Mechanical Engineering, ENG

Graphene nanoribbon TCAD modeling

Andrew Ryan, Computer Engineering, ENG

Determination of thiol attachment within microchannel

Bozena Sawicka, Chemical Engineering, LAS

Automated histopathology by FT-IR imaging of stained breast tissue

Lauren Sheehy, Bioengineering, ENG

Glass-based nano-fluidics for electro-kinetric phenomena

Miki Takagi, Mechanical Engineering, ENG

Modeling of a magnetorheological (MR) damper for real time hybrid simulation

Stephanie Tong, Civil and Environmental Engineering, ENG

Comparing probe models on pitch antennas

Huiru Xu, Electrical Engineering, ENG

Characterization of elastic moduli of 3D poly(HEMA) scaffolds

XiaoLin Zhang, Materials Science and Engineering, ENG



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