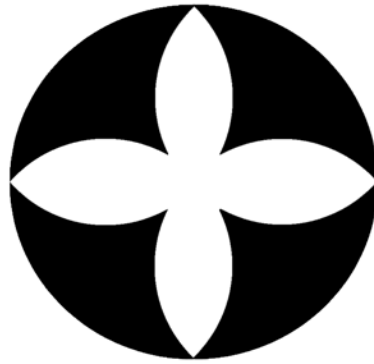


18th Annual



Temple Undergraduate Research Forum
& Creative Works Symposium

April 7, 2011

Welcome from Temple University



On behalf of President Ann Weaver Hart and Provost Richard Englert, I welcome all attendees to Temple's 2011 Temple Undergraduate Research Forum & Creative Works Symposium (TURF-CreWS).

Temple University continues to develop and extend its support of undergraduate research, scholarship and creative activity. The Diamond Scholars and Creative Arts, Research and Scholarship (CARAS) programs allow students to collaborate with faculty mentors on research or creative enterprises.

These University based programs, along with other School/College and Department based opportunities allow students to develop a broad array of research and creative opportunities at Temple. TURF-CreWS is an opportunity for students to share their work with peers, faculty and friends and for the Temple community to experience the ingenuity and creativity of our students. TURF-CreWS is a showcase for the energy and knowledge created when talented students work under the direction and mentorship of Temple's exceptional faculty. The combination of intellectual discovery and faculty-student mentorship is transformative for students, faculty and the university. It provides an energy that infuses the curricula with more discovery-based and active learning elements that will better prepare students for the intellectual challenges ahead.

TURF-CreWS was initially developed many years ago by Professor Sonja Peterson-Lewis in the Department of African-American Studies. It has developed into the university wide symposium of today due to the continued efforts of Professor Peterson-Lewis, along with Ruth Ost (Director of Honors), Emily Moerer (Assistant Vice Provost) and all the school and college liaisons. Most important, of course, are the student presenters themselves—for it is their creativity, scholarship, passion and energy that is on display.

President Hart, Provost Englert and I wish to thank all those who have contributed to the 2011 TURF-CreWS conference—including those who attend, listen, learn and support. There will be theories, ideas, images and evidence from many different disciplines today—but there will be one constant in all sessions: the zeal, energy and dedication of our students—and the quiet support and guiding hand of their mentors.

Enjoy your day!

Peter R. Jones, Senior Vice Provost for Undergraduate Studies

Founders' Greetings



Dear 2011TURF-CreWS Participant,

On any given day of the week at practically any hour it is difficult to walk through Annenberg Hall and not hear “the buzz.” My meetings in Weiss Hall will echo that same sentiment. The constant activity, the more than slightly audible hum of students working, meeting, practicing, even arguing is a metronome of undergraduate life. The School of Communications and Theater is but one example of that creative rhythm. Regardless if the topic is an academic pursuit of a communicative phenomenon or a carefully crafted mediated artifact or an intense theatrical narrative, the crescendo remains the same. Voices rise and fall into a syncopated pattern, more voices contribute, ultimately resulting in a sum that is greater than its individual parts. Assuredly, this cycle is repeated throughout our campus, affecting students in each of the Schools and Colleges.

That synthesis among supposedly disparate elements drives this Forum and Symposium. Simply, it is through this event that fields from across our University come together. It is for this reason that the “CreWS” aspect of the Temple Undergraduate Research Forum emerged. Highlighting aspects of creative works in relation to live performances as well as print and media augments the already fine contributions posited through traditional academic papers. Herein, features of organizational ethics will comingle with mediated images of cities and countries. Monologues about American life will be inter-spliced with analyses of race, interpolated with discussions of bicycling. Sexual identity will be considered and narrated. A group of undergraduates poses questions and well-honed responses to the quandary of the public image of an academic department. Concepts weave seamlessly through-out contentions, resulting in perhaps more questions and further investigations. The possibilities presented by undergraduate study are uplifting and dizzying. Even more, an emergent conclusion is forthright: Creative work and research are both important features of our University and both are vital elements of today’s event.

Undergraduate accomplishment is a viable, practically palpable entity at Temple University. The mentorship of faculty is coupled with a strong, passionate love of academic exploration. That drive is ballast for learning, growth, and understanding. For that commitment to education, I offer a sincere note of appreciation to today’s participants, faculty mentors and supporters. It is through your efforts that the buzz, that wonderfully cacophonous verbal symphony, will carry on well into the future.

With kind and collegial regards,

Scott Gratson, Ph.D.

SCT TURF-CreWS Director



Welcome to the Eighteenth Annual Temple Undergraduate Research Forum.

While converting some old VHS tapes to DVD, I came upon the very first session of TURF—then called TURC—with “C” standing for “Conference.” Most students who presented at the first TURF are now between 37 and 42 years of age. In watching their presentations and question-answer sessions, I wondered what advice their now 37-42 year old selves would give their 19-24 year old selves. Then it occurred to me that if TURF were a child, it would be 18 years old and preparing to make its way into the world—old enough to make contracts, to get a credit card and get married in any state without parental consent. When TURF was born, email was considered an emerging technology and cell phones were a rare, rare civilian sighting. TURF has come of age during a whirlwind of technological advances that have at once made the world quicker to travel and trickier to navigate without missteps being put on blast. I’ve been thinking of the advice I would give the 18-year old TURF as it headed into the world. Eighteen things came to mind; I’ll edit down to three. And although you have done fine without any advice from me, you may listen in.

1. Never *start* anything you see other people willing to pay to *quit*. Smoking is a simple example, but use your imagination; the example cup overfloweth.
2. As convenient and alluring as technology can be, it can never be as interesting or as potentially helpful as that real person sitting next to you in class, on the train, or across the table. Resist technology’s constant come-hither snare and take the risk of making eye contact and conversation with real people in real time. I know for a fact that some people who have important information to share with you will decide against doing so if you give the impression that they might have to compete with your next tune or txt or twt.
3. *Say thank you fast and furiously and often*—to those who drive your bus, prepare your food, sweep your floor, or who hold doors open for you as you enter texting and not looking where you are going. A sincere *thank you* really is the most impressive phrase you can say--or text--in any language.

I close by taking my own advice: A sincere *thank you* to Peter Jones, Senior Vice Provost for Undergraduate Studies, for your office’s financial and social support of TURF-CreWS; to Assistant Vice Provost Emily Moerer for your cool, heroic and successful first effort at coordinating TURF-CreWS; to Scott Gratson, CreWS founder, for your genius and wit; to Ruth Ost, University Honors Director, for your keen insights, verve and nerve in bringing us all together. Thank you AAS 4096 students who served on the Program, Hospitality, and Publicity Committees. Thank you, parents and families who entrusted your young adults to Temple University. Thank you, nominating faculty members who took time to nominate students for TURF. Thank you, TURF Review Board for evaluating abstracts. If you see these people, thank them, too. And thank you, TURF XVIII presenters who accepted the scary worldly challenge of presenting to a broader audience works that were originally intended for one or two professors’ eyes only. Those now 37-42 year old first TURFers gave TURF roots; you have helped to give TURF-CreWS wings. Thank you.

Sonja Peterson-Lewis
TURF Founding Member
Associate Professor
Department of African American Studies

Program Schedule



8:45am - 9:20am

Check-In & Continental Breakfast

9:30am - 10:50am

Concurrent Sessions

Session 1A: Ethics in Communication, Student Center 200A

Session 1B: Alter Research Scholars, Student Center 220

Session 1C: Global Discrimination, Student Center 217C

Session 1D: Food Culture, Student Center 217D

11:00am - 12:20pm

Concurrent Sessions

Session 2A: Identity of Place and Person, Student Center 200A

Session 2B: Education and Culture, Student Center 220

Session 2C: Global Politics, Student Center 217C

Session 2D: Scientific Inquiry, Student Center 217D

12:30pm - 1:50pm

Poster Session & Lunch for Presenters

Student Center 200C

2:00pm - 3:20pm

Concurrent Sessions

Session 3A: Differences and Outreach, Student Center 200A

Session 3B: Culture, Student Center 220

Session 3C: Greater Philadelphia, Student Center 217C

Session 3D: The Politics of Making Change, Student Center 217D

3:30pm - 4:30pm

Closing Ceremony

Student Center 200A

9:30am - 10:50am

Session 1A: Ethics in Communication, Dr. Donnalyn Pompper, Chair
Room 200A

<i>Name</i>	<i>Major</i>	<i>Title of Work</i>	<i>Supporting Faculty</i>
Holly McElwee	Strategic Communication	Ethics and the Nestle Corporation	Donnalyn Pompper
Jaclyn Boone	Advertising	Media and Society: Evaluating the Magic Bullet Approach	Dana Saewitz
Michelle A. Ziegenfuss	Strategic Communication	Bayer's Blood Supply Crisis: A Study of Failed Ethics	Donnalyn Pompper
Sarah Hutton	Strategic Communication	The Tuskegee Syphilis Study: Terrible Ethics of the U.S. Government and the USPHS	Donnalyn Pompper
Tyffany Stroman	Strategic Communication	Clinton-Lewinsky Scandal and Ethics in Crisis Communication	Donnalyn Pompper

Session 1B: Alter Research Scholars
Room 220

<i>Name</i>	<i>Major</i>	<i>Title of Work</i>	<i>Supporting Faculty</i>
Gregory McCormick	Strategic Management	The Tourism Sector of the Cusco Region: A Case Study	Mercedes Delgado
John Masterson	IBA/ Finance	Assessing the Role of Credit Ratings Agencies in the Modern Financial World	Gary Witt
Reena Shanker	Actuarial Science	First Year Of Disability	Patrick Gallagher
Taruja Deshmukh	RMI	Game Theory and Patent Litigation: Formulating More Effective Solutions	Michael Powers

9:30am - 10:50am

Session 1C: Global Discrimination

Room 217C

<i>Name</i>	<i>Major</i>	<i>Title of Work</i>	<i>Supporting Faculty</i>
Gregory Mucchetti	Political Science	The 2008 EU Anti-Discrimination Directive	Mark A. Pollack
Paul Sharp	Political Science	The Heterogender Nonconformity Standard: An Argument for a New Statutory Law	Heath Fogg Davis
Ruger Hay	Political Science	Global Anti-Homosexuality Laws	Mark A. Pollack
Sherine Mathew	Political Science	The Roma and the European Community: How the Policies of the EU Are Failing Europe's Largest Minority Group	Mark A. Pollack
YunSun (Joyce) Kang	Political Science	Anti-Americanism in South Korea	Roselyn Hsueh

Session 1D: Food Culture

Room 217D

<i>Name</i>	<i>Major</i>	<i>Title of Work</i>	<i>Supporting Faculty</i>
Elise Karam	Political Science	Italian Food Culture: Resilient and Adaptive in the Face of Globalization	Orfeo Fioretos
Korin Tangtrakul	Geography & Urban Studies	Food Accessibility and Food Choice: A Comparative Analysis of Food Choice in Developed and Developing Populations	Robert J. Mason
Nicole Cascio	Psychology	Effects of a Grocery Store Tour on Students' Nutrition-Related Behavior	Kathy Hirsh-Pasek
Tessa Vithayathil	Political Science	A Number One, Hold the Beef: The Localization of Global Food Culture	Orfeo Fioretos
Yuan Huang	Geography & Urban Studies	China's Food Security: The Consequences of Urban Growth	Robert J. Mason

11:00am – 12:20pm

Session 2A: Identity of Place and Person

Room 200A

<i>Name</i>	<i>Major</i>	<i>Title of Work</i>	<i>Supporting Faculty</i>
Daniel Suraci	STRC/GUS	Actualization vs. Affirmation	Scott Gratson
Vanessa Destime	Communications	Diversification Does Not Equal Integration	John Campbell
VonDexter Montegut II	Theater	American Journal	David Ingram
Sarah Schu	Journalism	Images of Germany and Jamaica	Ed Traves
Cast of que[e]ry: Martha Anker, Calvin Atkinson, Craig Bazan, Hilary Davies, Isabelle Denarie, Nathan Nolen Edwards, Steve Fala, Dane Farrell, Angie Fennell, Julia Freedman, Michael Grant, Thomas Green, Quinn Lashinsky, RJ Magee, Richard Sklar, Erica Smolzynski, Libby Spangler, Sofia Yavorsky, Mitchell Bloom, Cody Long , Aaron Palmer		An Exploration of Queer Identity and Performance	Peter Reynolds

11:00am – 12:20pm

Session 2B: Education and Culture

Room 220

<i>Name</i>	<i>Major</i>	<i>Title of Work</i>	<i>Supporting Faculty</i>
Afshan Ali	Political Science	The Moroccan Education System: Battle of the Languages	Orfeo Fioretos
Heather Wehr	Latin American Studies, Spanish	From Tortillas to Tourism: the Creation of Public Voice and Power for Kaqchikel Maya Women	Michael Hesson
Jessica B. Reed	Human Resource Management	Do You Really Know ME? Exploring the Impact of Culturally Responsive Pedagogy in Relation to the Development of Pre-Service Teachers	Gary Blau
Jessica Speakes	CITE	Who Am I Anyway? : An Examination of Culturally Responsive Picture Books in the Development of Cultural Identity in Pre-Literate Children	Erin Morales-Williams
Katherine Taylor	Psychology	The Effects of Narrative vs. Expository Text on Learning Novel Concepts	Kathy Hirsh-Pasek

Session 2C: Global Politics

Room 217C

<i>Name</i>	<i>Major</i>	<i>Title of Work</i>	<i>Supporting Faculty</i>
Aaron Spangler	Political Science	The Two Lions: The British Coalition Government and Its European Policy	Mark A. Pollack
Christine Einerson	Political Science	United States Policy Initiatives On Global Trafficking In Persons	Orfeo Fioretos
Mohamed Ali Niang	Strategic Management	Millennium Village Project: a New Approach to Fighting Poverty in Africa	Mark A. Pollack
Nikki Esposito	Political Science	Goodbye Beethoven: From the Constitutional Treaty to the Treaty of Lisbon	Mark A. Pollack
Shannon Kelly	Psychology	International Intervention in Sudan: A Philosophical Analysis	Mark A. Pollack

Session 2D: Scientific Inquiry

Room 217D

<i>Name</i>	<i>Major</i>	<i>Title of Work</i>	<i>Supporting Faculty</i>
Shayna Lowy	Psychology	The Effects of Negative Cognitive Style on the Frequency of Nonsuicidal Self-Injury	Kathy Hirsh-Pasek
Elizabeth A. Myrtetus	Psychology	Autism Spectrum Quotient Scores Predict Visuospatial Task Performance	Kim Curby
Giorvahny Augustin	Kinesiology	The Effect of a High Fat Versus a Low Fat Diet on Bone Development	Vanessa Yingling
Krishan Thadani	Biology	The Myth of Catholic Religious Objection to Autopsy: The Misinterpretation of “de Sepulturis” during the Renaissance	Kipp Gilmore-Clough
Regina Baglia	Chemistry	Synthesis of Novel Imido-Analogs of the Oxygen Evolving Complex	Michael Zdilla
Tiffany Kee	Psychology	Starting at Home: How Family Management Practices Affect School Engagement	Ronald Taylor

12:30pm – 1:50pm

Poster Session
Room 200C

<i>Name</i>	<i>Major</i>	<i>Title of Work</i>	<i>Supporting Faculty</i>
Alyson Caine	Anthropology	Undergraduate Research Experience in Oman	Kimberly Williams
Aparna Skariya	Biology	Generation of Anti-Carom Antibody to Examine the Homocysteine Effect on Carom Protein Expression in Endothelial Cells	Xinyu Xiong
Christopher de Solis	Neuroscience	Effects of a Single Acute Forced Exercise Session on Contextual Fear Conditioning and Glucocorticoid Levels in C57BL/6J Mice	Diana S. Woodruff-Pak
Daniel Hal	Neuroscience	Runners versus Clingers: an Analysis of Coping Strategies of C57BL/6J Mice in the Forced Exercise Stress Paradigm	Diana S. Woodruff-Pak
Gal Bordo	Neuroscience	High-Risk Genes and Family Environments for Obesity in African American Children	Jennifer Orlet-Fisher
Indhu Prabhakaran	Biology	Noninvasive Prenatal Diagnosis of the RhD Gene	Ossie Geifman-Holtzman
Jackie Keiffer	Psychology	The Effects of Maternal Employment on Adult Daughters and the Mother-Daughter Relationship	Marsha Weinraub
John P. Turner	Psychology	Mood Effects on Face Categorization and Recognition	Kareem Johnson
Joshua Ryan Hummel	Chemistry	A Novel Methodology for the Asymmetric Synthesis of Cocaine Related Alkaloids	Franklin A. Davis
Julie Harrison	Psychology	Examining Long-Term Outcomes of CBT for Childhood Anxiety on Occupational Functioning and Educational Achievement	Philip Kendall
Katie Herbster	Psychology	How Do Family Routines Affect Adolescent Delinquency?	Kathy Hirsh Pasek
Keisha Smith	Social Work	Attitudes of Girls about Boys: Impact on Teen Pregnancy	Mark Schmitz
Kevin Henson	Neuroscience	Irrelevant Speech Effects on Attentional Mechanisms	Jason Chein
Krishan Thadani	Biology	Old Age and Glucose Tolerance in the Solomon Islands	Charles Weitz

12:30pm – 1:50pm

Poster Session
Room 200C

<i>Name</i>	<i>Major</i>	<i>Title of Work</i>	<i>Supporting Faculty</i>
Leisa Small	Psychology	Implicit Attitudes and Eating Behavior	Kathy Hirsh-Pasek and Andrew Karpinski
Nicole Newton	Psychology	Rumination as an Intergenerational Risk Factor for Depression	Lauren B. Alloy and Kathy Hirsh-Pasek
Rachel Mergaman	Kinesiology	Dietary Magnesium Levels Below the Daily Recommended Intake are Associated with Higher Cholesterol Levels in Pre-Hypertensive African Americans	Michael Brown
Rachel Wolkiewicz	STHM	Philadelphia Genealogical Tours - An Experience Concept	Iis Tussyadiah
Robyn Henry	Psychology	The Effects of Uncertainty on Sunk Cost and the Decision to Recommit	Donald Hantula
Rochelle Cassells	Psychology	The Effects of Withdrawal from Chronic Nicotine on Transitive Inference (TI)	Kathy Hirsh-Pasek
Sabra Ann Walter	Psychology	Patterns of Peer Processes among Children with ADHD Symptoms	Kathy Hirsh-Pasek
Samantha Garcia	Biology	p38SJ, a Novel DING Protein from St. John's Wort Inhibits Tumor Cell Growth via Induction of Cell Cycle Arrest	Shohreh Amini
Seemal Awan	Biology	Taking a Step towards Combating Inadequate Health Care Using NARS, a General Purpose Reasoning System	Pei Wang
Tanya Singh, Angela Thomas, Tim Starosta, Heera Jose	Mechanical Engineering	Low Cost Device for Testing Aerobic Performance in Rodents	Mohammad Kiani
Tugba Akgun, Daniel Kapral, Rory Sgarlat	Civil and Environmental Engineering	The Performance of an Engineered Wetland to Control Eutrophication	Robert Ryan

2:00pm – 3:20pm

Session 3A: Differences and Outreach
Room 200A

<i>Name</i>	<i>Major</i>	<i>Title of Work</i>	<i>Supporting Faculty</i>
Cassandra Nary, Erlina Ortiz	Theater	Scene from <i>A Streetcar Named Desire</i>	David Ingram
Amanda Lippert	Graphic Design	Cyber Bullying—Just a Click	Scott Gratson
Jasmine St.Clair	Theater	Contrasting Monologues	Donna Snow
PRowl : Michele Reilley, Patricia Wyatt, Emily Woodward, Kaitlin Tully, Jaime Scofield, Nicholas Stackhouse, Michele Voli	STRC and COMM	Applications to the Strategic Communications Department	Gregg Feistman

Session 3B: Culture
Room 220

<i>Name</i>	<i>Major</i>	<i>Title of Work</i>	<i>Supporting Faculty</i>
Donald Bermudez	History	Not Only Genocide: Rwanda's Revolution and Its Misrepresentation	Teshale Tibebe
Emily Perri	Anthropology	Navigating by Text Message: Daily Journeys through Technologically Mediated Lifeworlds	Paul Garrett
Jaclyn Sadicario	English, Women's Studies	Autobiographical Contemporary Women's Poetry: a means of understanding cultural context	Pattie McCarthy
Esther Darko	African American Studies	Ama Ata Aidoo and the Impact of Family Values in Her Work	Nilgun A. Okur
Rudolph Kraeher	English	Impossible Tones: Musical Renderings of the Unknown and the Unutterable	Katherine Henry

2:00pm – 3:20pm

Session 3C: Greater Philadelphia
Room 217C

<i>Name</i>	<i>Major</i>	<i>Title of Work</i>	<i>Supporting Faculty</i>
Aviva Lenoff	History	From Politics to Community: The Evolution of Jewish Socialism in Philadelphia, 1930-1950	Lila Berman
C. Nicholas Menta	Political Science	The New American Tea Party: Right Wing Populism and the Myth of the Founding Fathers	Joseph M. Schwartz
Elizabeth Cozzolino	Political Science, Sociology	Race and Hysteria in the News: The Case of Philadelphia "Flash Mobs"	Barbara Ferman
Mackenzie Blount, Matthew Caucci, Rafael Cervilla, Joseph Cianchetta	Landscape Architecture	Master Plan Design for Villanova University	Lolly Tai and Stuart Appel
Daniel Dench	Economics	Parents' Child Care Expenditure Decisions in the Presence of an Employment-Related Subsidy	William J. Stull

Session 3D: The Politics of Making Change
Room 217D

<i>Name</i>	<i>Major</i>	<i>Title of Work</i>	<i>Supporting Faculty</i>
Abigail M. Shepherd	Political Science	Climate Change Policy: Is the European Union a World Leader?	Mark A. Pollack
Daniel Assaraf	Economics	Interest Rate Stickiness and Consumer Irrationality in the Credit Card Market	Paul Rappoport
Eric Horst	Economics, Political Science	The Effects of Employment Protection on Labor Markets: A U.S.-Japanese Comparison	Richard Deeg
Jae Hyeon Lee	Physics	The Science and Politics of Climate Change: An Analysis of the Nongovernmental International Panel on Climate Change	Mark A. Pollack
John DiMartino	RMI, HRM	Compensation Based Action Plan	Crystal Harold