



## 2013 Student Projects

### 51 Projects - 51 Students - 39 Mentors - 12 Countries

Australia, China, Ethiopia, France, New Zealand, Nigeria, Panama, Peru, Russia, United Kingdom, United States (23 projects in DFW!) and Vietnam

### 8 Continuing Projects - 8 Mentors - 2 Countries

Italy, United States

#### RESEARCH (24)

1. Junior Joshua Abramovitch will create a simple and inexpensive device that can be used to accurately measure gamma and x-ray flux and calculate radiation dose rates. (Major: PHYS, ME; Mentor: Dr. Andy Liu)
2. Junior Mariam Alaka will work at an orphanage in Nigeria that serves children whose parents have succumbed to AIDS and while there gauge children's knowledge and prevention of HIV/AIDS. (Major: PSYC; Mentor: Dr. George Holden)
3. Junior Raha Assadi will study the effectiveness of a dropout prevention program in Plano Independent School District directed towards Hispanic girls. (Major: SOCI, SPAN; Mentor: Dr. Sheri Kunovich)
4. Junior Lauryn Bodden has begun a food as culture project locally and, while studying in London, will expand her knowledge of the glocal food movement, comparing Londoners' attitudes about food and eating habits with Americans. (Major: APSM, COMM; Mentor: Dr. Owen Lynch)
5. Junior Daniel Brock will explore, through self and social awareness, how ethical decision-making for the energy industry and lawmakers can be both profitable and free of political and personal biases. (Major: MNO; Mentor: Maria Richards)
6. Junior Kevin Bruemmer will develop original 13C MRI contrast agents to detect chemical species important in clinical and biological processes. (Major: CHEM; Mentor: Dr. Alex Lippert)
7. Junior Morgan Cain will research economic, socio-political and personal movements impacting organizational structures in Moscow to identify key relationship and factors that will lead to the widespread adoption of eco-friendly practices (Major: ECON, MKCL; Mentor: Anne Lincoln)
8. Sophomore Aaron Chu will evaluate the performance of the iFlame laser transmitter before, during and after irradiation to examine its viability for usage on the Large Hadron Collider in Switzerland. (Major: ME; Mentor: Dr. Annie Xiang)
9. Junior Kalindi Dinoffer will research profiles of female entrepreneurs in the United States and produce an academic paper on the similarities and differences of self-employed and employed women. (Major: MKTG; Mentor: Dr. Maria Minniti)
10. Sophomore Fantine Giap will develop and distribute cancer information pamphlets to patients in Vietnam and then develop a mathematical model to assess the spread of health knowledge in Vietnamese public hospitals. (Major: BIOL; Mentor: Dr. Thomas Carr)
11. Junior Michael Graves will research effective communication practices of the United Methodist church and contribute to a chapter of Dr. Dixon's book, *In Between Sundays – Strategic Communication in the Church*. (Major: COMM, RELI; Mentor: Dr. Maria Dixon)
12. Junior Derek Hawkes will research the successes and failures of technology usage by orchestras for revenue-increasing purposes, and publish a set of effective mobile use guidelines for similar groups. (Major: PERB, AMAE; Mentor: Dr. Maria Dixon)
13. Sophomore Preston Hutcherson will enroll in the same humanities course at two institutions, SMU and Richland College, to be able to answer to what extent is the value of a course tied to the amount we pay for it. (Major: ENGL; Mentor: Dr. Tim Cassady)

14. Sophomore Janice Kim will assess the health and cancer literacy of Vietnamese women and explore various sources from which these women are able to obtain their health information. (Major: BIOL; Mentor: Dr. Smith-Morris)
15. Sophomore Christina Lollar will research sulfur ylide and develop a novel sulfur ylide mediated synthetic technique for the preparation of benzil derivatives. (Major: BIOCHM, FREN; Mentor: Dr. Lippert)
16. Junior Emily Mankowski will research the historical racism of the Aboriginal people in Australia to shed light on present-day discrimination as well as efforts to remediate discrimination. (Major: HRTS; PLSC; Mentor: Dr. Rick Halperin)
17. Sophomore Kyle Nakatsuka will research urban revitalization in communities with deep socioeconomic needs and strong movements towards cultural self-determination, comparing contemporary native American communities of Taos and Hawai'i. (Major: BIOL, SPAN, LAAM, HRTS; Mentor: Dr. Mike Adler)
18. Sophomore Gabriella Padgett will study the environment that fosters success in the classroom and the ability to think and perform creatively, comparing peer education in the U.S. and China. (Major: MATH, CRCOMP; Mentor: Dr. Ira Greenberg)
19. Sophomore Anish Patel will research the functionalization of carbosilane-thioether dendrimers. (Major: BIOCHEM, MATH; Mentor: Dr. David Son)
20. Junior Sean Potter will investigate the impact of transient measurement error on personality assessment in a diverse community sample. (Major: PSYC, MNO; Mentor: Dr. Michael Chmielewski)
21. Junior Rebecca Swarm, using the Café Momentum program as her subject of study, will research the traits, attributes and experiences that increase the likelihood of success of young men enrolled in the program. (Major: SOCI; Mentor: Dr. Sheri Kunovich)
22. Junior Charles Wysocki will research the molecular mechanism of lifespan extension through dietary restriction. (Major: BIOL, CHEM; Mentor: Dr. Johannes Bauer)

#### **Continuing 2012 Research Projects**

23. Junior Eric Alt is designing a compound to remove heavy metals from polluted environments. (Majors: CHEM, ME; Mentor: Dr. Dieter Cremer)
24. Senior Basma Raza is researching societal perceptions of herself as female, Muslim, married, and student, to explore similarities within differences between cultures and ethnicities. (Major: COMM; Mentor: Dr. Owen Lynch)

#### **COMMUNITY SERVICE (20)**

1. Sophomore Juliana Bond will work toward developing a viable model of organic and sustainable micro-farming techniques as part of the SMU Community Garden project. (Major: MNO; Mentor: Dr. Elaine Heath)
2. Junior Matthew Cody will organize and lead a service trip to Panama for the SMU Spanish Club. (Majors: MKTG, WL; Mentor: Angie Moron-Nozaleda)
3. Junior Delanah Colbert will work with UBELONG in Cusco, Peru to develop and deliver a culturally relevant health education program addressing nutritional disorders. (Major: INTL; Mentor: Dr. Carolyn Smith-Morris)
4. Junior Maria Cole will develop a life-skills training program for adults focusing on positive parenting and child-rearing success. (Major: PSYC; Mentor: Dr. Williams-Rossi)
5. Junior Parminder Deo will contribute to the SMU residential commons initiative by researching the University of Oxford's long-standing residential commons model. (Major: BIOL, JOUR; Mentor: Jeff Grim)
6. Senior Jordan Fields will create a communications plan for the SMU Spanish Club. (Major: PR, COMM; Mentor: Dr. Rita Linjuan Men)

7. Junior Zachary Friske, along with Mustang EMS and SMU Office of Risk Management, will develop and launch a SMU Cardiovascular Incident Prevention/Response Program. (Major: BIOCHM; Mentor: Lee Arning)
8. Sophomore Hanan Hassan, volunteering with Vision on Africa, will develop a life skills tool kit of basic business concepts as a result of working with economically deprived women and youth of Yeka sub-city, Ethiopia. (Major: ACCT, ENGL; Mentor: Dr. Maribeth Kuenzi)
9. Junior Ghazala Janmohamed will assemble traveling displays of archeological and ethnographic materials from Picuris Pueblo, presently stored at SMU-in-Taos, to educate the public about the long span of human occupation in the Northern Rio Grande region, New Mexico. (Major: ANTH, INTL; Mentor: Dr. Mike Adler)
10. Sophomore Danielle Katz will use her Spanish skills and education minor to volunteer at an over-populated kindergarten in Cuzco, Peru through the non-profit UBECI. (Majors: SPAN, EDU, PSYC; Mentor: Dr. Renata Égüez)
11. Junior Fernando Lira, along with League of United Latin American Citizens Council and Upward Bound, will develop a mentorship program for youth in the Pleasant Grove community of Dallas. (Major: History; Mentor: Dr. Barbara Morganfield)
12. Sophomore Derek Phanekham will work on the SMU Community Garden project with the intent to develop it as an interdisciplinary learning site to learn about viable, small scale agricultural models transferable to blighted urban neighborhoods. (Major: CSE, MATH; Mentor: Dr. Elaine Heath)
13. Sophomore Daisuke Takeda will expand Green Riba, an e-commerce and traditional micro-finance storefront, to connect West Dallas and SMU-based artists to larger, national markets. (Major: FINA; Mentor: Ms. Regina Nippert)
14. Sophomore Lucy Yu, with Global Medical Brigades Panama, will coordinate a doctor shadowing experience this summer for pre-health students with the intent to develop a SMU Medical Brigades club. (Major: MATH; Mentor: Miroslava Detcheva)

### **Continuing 2012 Community Service Projects**

15. Senior Tanya Arora is designing a training program for universities and colleges to reduce the adverse effects of annual leadership change in student organizations. (Majors: MNO, PSYC; Mentor: Dr. Maribeth Kuenzi)
16. Junior Drake Frank is modifying a stationary diesel engine to run off of coconut oil to be introduced to Kenyan families to provide sustainable energy through Kenyan Agriculture Commodity Exchange Ltd. (Major: ME; Mentor: Dr. Tindaro Ioppolo)
17. Junior Sarah Montonchaikul, while interning with the Mugello Valley Archaeological Project, Italy, learned conservation techniques and is documenting the process as instructional materials for the project. (Major: ARHS, FL; Mentor: Dr. Greg Warden)
18. Junior Richard Nixon is expanding a group microfinance project into Vickery Meadow with the creation of business development workshops. (Major: ME; Mentor: Mr. Jim Bryan)
19. Sophomore Ashley Wali worked with the Nari Project in Bangladesh to address needs of women suffering from domestic violence. (Major: BA; Mentor: Dr. Rick Halperin)
20. Junior Miller Walker is developing and will deliver an after-school French program for homeless children in the DISD school system and connect them with school children in France. (Major: FREN; Mentor: Dr. Heather Pelletier)

### **INTERNSHIPS (3)**

1. Senior Morgan Beckwith will intern with Mystic Ballet professional dance company to gain inside knowledge about the administrative and artistic sides of a successful contemporary dance company. (Major: DANC, ARHS; Mentor: Dr. Shelly Berg)

2. Junior An Phan will be a congressional intern in Washington, D.C. to learn about U.S. policy making. (Major: COMM, SPAN; Mentor: Mr. Rick Garza)
3. Junior Meredith Tavallaee will intern at the Musee du Louvre in Paris, and research recent acquisitions to the sculpture collections. (Major: ARHS, ENGL; Mentor: Dr. Pamela Patton)

## **CREATIVE WORK (12)**

1. Junior Claire Carson will write a script and produce a play to be produced by SMUST, Meadows student theatre organization, based on her experience as a volunteer at Kidane Meheret Children's Home in Ethiopia. (Major: THEA; Mentor: Dr. Gretchen Smith)
2. Junior Maria Cross will create a short film to compare and contrast attitudes towards gun policy within the United Kingdom and the United States. (Major: ADV; Mentor: Brice Campbell)
3. Junior Thomas Gelo will bring to life the view of a foreign culture from the eyes of a study abroad student through the medium of an Avant Garde film. (Major: THEA, FILM; Mentor: Dr. Gretchen Smith)
4. Junior Taylor Henry will research, develop and implement a sustainable, scalable and replicable system to provide drinking water to a community that relies only on solar energy. (Major: CE; Mentor: Dr. Andrew Quicksall)
5. Junior, Kristen Kelso, while studying abroad in London, will research street performers and create a solo performance piece to communicate the challenging art of street performance. (Major: THEA; Mentor: Dr. Gretchen Smith)
6. First year Thomas Kennedy will develop a web server for iGiddyUp, an iOS application which will improve the efficiency of the SMU Giddy Up system. (Major: CSE, MATH; Mentor: Dr. Mark Fontenot)
7. First year Patrick Leopard II will develop an implementation plan for iGiddyUp, iOS application which will improve the efficiency of the SMU Giddy Up system. (Major: CSE; Mentor: Dr. Mark Fontenot)
8. Junior Lauren Mishoe will create a mixed-media solo performance as a result of her time abroad studying female empowerment of the Maori people in New Zealand. (Major: THEA; Mentor: Dr. Rhonda Blair)
9. Junior Mikaila Muñoz will produce a robot prototype as a hands-on educational toy to be used to promote learning about electronics and programming in children, ages 3 to 12. (Major: CRCOMP, ARST; Mentor: Dr. Brittany Ransom)
10. Sophomore Mei Mei Pollitt will attend the Festival D'Avignon, an arts extravaganza, in summer 2013 and produce a media based performance of her own and begin a database of global art festivals for the Meadows community. (Major: THEA, FREN; Mentor: Dr. Gretchen Smith)
11. Junior Alexandria Stinger, while studying in London, will learn about the symbiotic relationship between urbanism, art and humanity and create a solo dance performance on those themes. (Major: DANC, ADV; Mentor: Dr. Shelley Berg)
12. Junior Rachel Wilson produce a short film and installation piece of British hip hop culture based on her exploration of the topic in London this summer. (Major: FILM; Mentor: Dr. Shelley Berg)