

# DEPAUW UNIVERSITY ACADEMIC AWARDS CONVOCATION

Kresge Auditorium  
Green Center for the Performing Arts  
Monday, April 30, 2012  
8:00 p.m.

Opening remarks.....Dr. Pedar Foss, Dean of Academic Life  
Introduction of speaker.....Dr. Andrea Sununu, Professor of English  
Address.....Nicole Hallett (DePauw, '03)

Nicole Hallett graduated from DePauw (Phi Beta Kappa, summa cum laude) with majors in English literature and philosophy. While a student at DePauw, she traveled to Bangladesh to spend Winter Term in Service, to Argentina to do research on writer Jorge Luis Borges, and to Germany to study art, history, language and politics. A Rector Scholar and an Honor Scholar, she wrote a senior thesis titled "Mohammed in Copenhagen: Muslim Minorities in Western Europe." She was the recipient of a Truman Scholarship in 2002 and of the Dr. Irving Serlin Distinguished Honor Scholar award in 2003. After her graduation from DePauw, Nicole spent a year as a Luce Scholar working on international human rights in South Korea. She is a graduate of the University of Oxford's School of Development Studies (2005) and of Yale Law School (2008). After earning her law degree, she clerked for the Honorable Rosemary S. Pooler on the United States Court of Appeals for the Second Circuit and the Honorable Mark R. Kravitz on the United States District Court for the District of Connecticut. Nicole is currently a Skadden Fellow and an attorney at the Urban Justice Center in New York City, where she focuses specifically on the rights of immigrant workers. She is also an adjunct lecturer at Yale University and at New York University Law School.

Announcement of Awards.....Dr. Pedar Foss, Dean of Academic Life  
Dr. Mark McCoy, Dean of the School of Music  
Dr. Susan Anthony, Associate Professor of Communication and Theatre  
Dr. Sharon Crary, Associate Professor of Chemistry and Biochemistry  
Dr. Brett O'Bannon, Associate Professor of Political Science  
Dr. Marnie McInnes, Director of Nationally Competitive Scholarships  
Presentation of Walker Cup.....Dr. Brian W. Casey, President  
"A Toast to DePauw"..... Renata Dworak (DePauw, '12)  
Recessional music.....William Scharfenberger (DePauw, '13)  
"Finale" from *Fantasia for Organ* (John Weaver, b. 1937)

Refreshments will be served following the convocation.

# UNIVERSITY AWARDS

## **D. J. Angus-Sciencetech Educational Foundational Scholarship**

For the sophomore or junior majoring in the natural sciences or mathematics who has shown the greatest improvement in GPA from one semester or year to the next.

**Stephanie L. Sladnick**

## **I. Nelle Barnhart Award**

For the senior who has made outstanding contributions to the co-curricular life of the student body in support of the academic mission of the University. Given in honor of I. Nelle Barnhart, Associate Dean of Students at DePauw from 1949-1979.

**Nicholas Flores**

## **Joan Westmen Battey Endowed Scholarship**

For the sophomore member of Kappa Alpha Theta sorority with the highest GPA in the first semester of her sophomore year.

**Alicia A. Erwin**

## **David B. Becker Fellows**

For upperclass ITAP associates who have demonstrated significant achievement in on-campus and off-campus internship opportunities. A Becker Fellow has assumed a leadership role within ITAP and is recognized for the ability to link on-campus training with real-world IT experience.

**Lois N. Aryee**

**ShanKara B. Johnson**

**Matthew D. Polky**

**Meixue Xu**

**Joseph Barana**

**Tanmoy Das Lala**

**Amanda M. Russ**

**Kaitrin A. A. Higbee**

**Tyler L. Perfitt**

**Aishwarya Subbaraman**

## **Busey Family Endowed Scholarship**

For the sophomore or junior member of Alpha Tau Omega fraternity who is active in campus leadership and earns the highest first-semester GPA.

**John T. Fagan**

## **Justin and Darrienne Christian ITAP Annual Fund Scholarship**

For an ITAP student who has made a significant contribution to the campus and community, has maximized the experience for his or her professional and personal growth, and has contributed to the development of other students in the program through his or her dedication to the on-campus ITAP internship.

**Gregory B. Screws**

## **Gertrude and G.D. Crain Award**

For students who make the most effective use of the facilities provided by the Eugene S. Pulliam Center for Contemporary Media.

**Brian K. Alkire**

**Jenna M. Buehler**

**Margaret A. Distler**

**Ariella R. Ford**

**Emily A. Green**

**Hadley J. Key**

**Katherine M. Logan**

**Marisa L. Rouse**

**Carli N. Anderson**

**Matthew W. Cecil**

**Joseph A. Fanelli**

**Ryan T. Foutty**

**Chase G. Hall**

**Kaitlin F. Klose**

**Jacob A. Mark**

**Caroline C. Torie**

**Ashlyn M. Archer**

**Abigail L. Dickey**

**Dana M. Ferguson**

**William H. Goble**

**Caleb E. Haydock**

**Ellen C. Kobe**

**Erin K. O'Brien**

**Daniel J. Welsh**

## **Joseph F. Gillespie Medical Fellowship**

For a deserving senior pre-medical student for advanced education.

**Rachel M. MacBeth**

**Rebecca G. Maddrell ('11)**

**Andrew S. Pfaff**

### **Margaret Gilmore Library Science Scholarship**

For a DePauw woman graduate who is especially qualified to receive expert training as a librarian.

**Alana G. DeWitt ('11)**

**Margaret E. Galasso ('11)**

### **Katherine Cox Hoover Scholarship**

For a sophomore who has demonstrated outstanding character, leadership, and special talents in extra-curricular activities. Established by James E. and Katherine Cox Hoover ('51).

**Branko Bibic**

### **2011-2012 Information Technology Associates Program Graduates**

**Vincent M. Aguirre**

**Lois N. Aryee**

**Joseph Barana**

**Jenna M. Buehler**

**R. Joshua Fantus**

**Kaitrin A. A. Higbee**

**Ha Thu Hoang**

**ShanKara B. Johnson**

**Bok Eum Kang**

**Tiamo Katsonga-Phiri**

**Eilene R. Ladson**

**Tanmoy Das Lala**

**Tianjiao Liu**

**Gabriel Lopez**

**Nasheed Moiz**

**Duc Minh Pham**

**Matthew D. Polky**

**Ian T. Rumpp**

**Amanda M. Russ**

**Kristopher D. Schmelzer**

**Aishwarya Subbaraman**

**Xinyi Wang**

**Meixue Xu**

**Chao Zhu**

### **Lambda Chi Alpha Prize**

For a junior who has made a significant contribution to Christian living at DePauw.

**Amanda R. Brinkman**

**Gregory B. Screws**

**Sarah K. Tibbitts**

### **R. Stanley Lawton, Jr. Prize**

For students who have expressed and evidenced an interest in attending law school and who have demonstrated potential for high achievement in law school and in the practice of law as a profession. Established in memory of R. Stanley Lawton, Jr. ('36), with gifts from the law firm of Ice Miller and Mrs. R. Stanley Lawton, Jr.

**Abigail L. Balbach**

**Stephanie L. Grass**

**Roy R. Leaf**

### **Albert Lund Scholarship**

For an active member of Phi Delta Theta fraternity who has won an internal scholarship competition based on academic achievement and community service.

**John T. Colton**

**Brent M. Hume**

### **Men's Hall Alumni Association Endowed Scholarship**

For a sophomore and junior who have contributed significantly to the quality of life at DePauw. The winners will have demonstrated or promoted through their campus efforts the principles and ideals memorialized by the Men's Hall Association.

**Emily R. Jones**

### **Thomas Mote Public and Global Health Senior Award**

For the senior who has done the most to promote the health of populations.

**Sajel E. Tremblay**

### **Clifton J. Phillips Archives Research Award**

For the student who has submitted the best research paper or project using a significant amount of resources from the Archives of DePauw University and Indiana United Methodism.

**Tyler Allen Archer ('11)**

### **Alice G. Ross Senior Award**

For an outstanding senior woman from Indiana. The award is in memory of George A. Ross' mother, a housemother at Kappa Alpha Theta.

**Joan C. Pankratz**

## **Stuart and Jane Watson Delta Tau Delta Endowed Scholarship**

For members of the Delta Tau Delta fraternity with the highest GPA in their class at the end of the fall semester.

**Eric A. Malm**

**James E. McMechan**

**Mitchell W. Vonderau**

## **Randal L. Wilson Memorial Union Board Award**

For a junior who has made outstanding contributions to campus life. Established by Margaret Hardgrove Wilson ('41) and her husband Robert in memory of their son, who had been president of the Union Board.

**James W. Kirkpatrick**

## **Phi Beta Kappa**

Phi Beta Kappa, founded in 1776, is the oldest and most respected honorary society in the United States. The Indiana Alpha Chapter was chartered at DePauw in 1889.

**Grace K. Ardery ('12)**

**Kara L. Bishak ('12)**

**Danielle M. Brown ('12)**

**Rachel A. Cheeseman ('12)**

**Michelina Ferrara ('12)**

**Van C. Hoang ('12)**

**Kreigh A. Kamman ('12)**

**Alexa N. Kovachevich ('12)**

**Alan K. W. Lee ('12)**

**Rachel M. MacBeth ('12)**

**Allison M. Mousel ('12)**

**Phuong H. Nguyen ('12)**

**Elias M. Oziolor ('12)**

**Kathryn J. Pfaff ('12)**

**Marisa L. Rouse ('12)**

**Sajel E. Tremblay ('12)**

**Elaine C. Wiley ('12)**

**Son D. Pham ('13)**

**Adam E. Weaver ('13)**

**Macy E. Ayers ('12)**

**Luke P. Bretscher ('12)**

**Betty Jin Jin Cao ('12)**

**Jonathan D. Cripe ('12)**

**Rachel L. German ('12)**

**Samuel T. Holley-Kline ('12)**

**Zachary A. Keller ('12)**

**Tanmoy Das Lala ('12)**

**Alex S. Lopatka ('12)**

**Samantha T. March ('12)**

**Case M. Nafziger ('12)**

**Matthew A. Norton ('12)**

**Joan C. Pankratz ('12)**

**Duc A. Pham ('12)**

**Paromita Sen ('12)**

**Ashwin A. Upasani ('12)**

**Yue Zhang ('12)**

**Janelle C. Thixton ('13)**

**Daniel J. Walsh ('13)**

**Catherine M. Baker ('12)**

**Courtney E. Brimmer ('12)**

**Sarah R. Chamberlain ('12)**

**Robert J. Fantus ('12)**

**Victoria S. Googasian ('12)**

**Morgan M. Hooks ('12)**

**Ryan J. Kelly ('12)**

**Roy R. Leaf ('12)**

**Ruize Ma ('12)**

**Molly J. McGonigal ('12)**

**Huyen K. Nguyen ('12)**

**Katie K. Owens ('12)**

**Andrew S. Pfaff ('12)**

**Lisa A. Poole ('12)**

**Aishwarya Subbaraman ('12)**

**Rong Wang ('12)**

**Carroll T. Bible ('13)**

**Mohammad Usman ('13)**

**Bradley P. Wethington ('13)**

# **SCHOOL OF MUSIC**

## **John and Esther Browning Scholarship**

For an outstanding pianist or violinist completing the junior year at DePauw.

**J. Alexander Diaz**

## **Leah Curnutt Prize**

For an outstanding student majoring in music education or piano. Established by Mildred Gardner ('47), a School of Music alumna and lifelong friend of Professor Leah Curnutt. Professor Curnutt taught at DePauw from 1935-1970.

**Patrick M. Speranza**

## **Fitzpatrick Opera Award**

For the senior vocalist who has contributed the most to opera productions during his or her time at DePauw. Dr. Fitzpatrick taught at DePauw from 1963-1991.

**Case M. Nafziger**

## **Indiana Music Teachers Association Student Achievement Recognition (StAR) Award**

For a deserving student who plans to teach in an independent or collegiate music studio following graduation.

**Zakary D. Phillips**

### **Meghan Parker Memorial Prize**

For the outstanding first-year vocalist in the School of Music. Established through gifts from family and friends in memory of Meghan Parker, who was killed in an automobile accident in September 1990, at the beginning of her first year at DePauw.

**Joseph R. Leppek**

### **Performance Certificates**

For seniors who have attained a high degree of excellence in applied music.

**Sarah R. Chamberlain**

**Sara D. Horton**

**Case M. Nafziger**

**Jennifer A. Wilson**

### **Presser Undergraduate Scholar Award**

For an outstanding junior majoring in music.

**Josiah Q. Rushing**

### **Mabel Lucille Sherman Music Award**

For the outstanding pianists in the graduating class.

**Joanna L. Dukes**

**Jane M. J. Lim**

**Renata A. Dworak**

### **Van Denman Thompson Award**

For a senior who has achieved excellence in scholarship, musicianship and activities. Established by Van Denman Thompson, who taught in the School of Music from 1911-1957.

**Renata A. Dworak**

### **Pi Kappa Lambda Music Honorary**

The national music honorary society, to which students are inducted on the basis of scholarship and musicianship.

**Megan A. Benedict**

**Emily C. Friend**

**Claire E. Jagla**

**Sarah N. Leeper**

**Case M. Nafziger**

**Katie K. Owens**

**Patrick M. Speranza**

## **ARTS AND HUMANITIES**

### **DEPARTMENT OF ART AND ART HISTORY**

#### **Art Department Scholarship**

For students selected by the Department of Art and Art History to receive funds for materials, books or studio fees at the student's discretion for furthering art studies while at DePauw.

**Vishal Khandelwal**

#### **Vera May Knauer Farber Award**

For a sophomore or junior studio art major, with preference given to one who uses direct observation as a source for imagery. Established by Vera May Knauer Farber ('36).

**R. LizBeth Poor**

#### **Indiana Artist-Craftsmen/Talbot Street Art Fair Prize**

For deserving underclass students majoring in studio art, to be used for the purchase of art supplies. Established in honor of Richard Peeler, who taught ceramics at DePauw from 1958-1972, and Marjorie Peeler.

**Adalky F. Capellan**

### **William Meehan Prize in Art**

For a senior art student who works in traditional media in non-traditional ways. Established in memory of Professor William Meehan, who taught at DePauw from 1963-1992.

**Emelie J. J. Johansson**

### **Senior Art History Prize**

For a senior art history major.

**Naiomy M. Guerrero**

### **Fritz Smith Memorial Art Award**

For an undergraduate student whose outstanding painting or drawing is selected for the University's permanent collection. Established in memory of Fritz Smith, a DePauw art student, who died in 1959.

**Lily J. Bonwich**

### **A. Reid Winsey Memorial Art Scholarship**

For an outstanding first-year art student. Awarded in honor of A. Reid Winsey, department chair from 1935-1970.

**Beibei Lu**

## **ASIAN STUDIES PROGRAM**

### **Sharon Hamilton Nolte Prize in Japanese Studies**

For a student who plans to study at a Japanese university. Established in memory of Sharon Hamilton Nolte, a faculty member in the Department of History from 1984-1987.

**Madeline A. Leclair**

## **DEPARTMENT OF CLASSICAL STUDIES**

### **Kairos Award for Achievement in Classical Studies**

Awarded to the student who has demonstrated significant achievement in Greek and/or Latin as well as Classical Civilization.

**Han Peng**

### **Kairos Award for Achievement in Greek**

Awarded to the student who has demonstrated significant achievement in Greek at the advanced level.

**John R. Glerum**

### **Kairos Award for Achievement in Latin**

Awarded to the student who has demonstrated significant achievement in Latin at the advanced level.

**Kristen T. Fanning**

### **Outstanding Senior Major**

For a graduating senior majoring in Classical Civilization, Latin or Greek who has achieved outstanding academic success and/or made significant contributions to the department during his or her four years at DePauw.

**Brianna C. Randall-DePauw**

### **Georgia M. Watkins Prize**

For the outstanding beginning Greek student and the outstanding beginning Latin student.

**Dylan L. Howard** (Greek)

**Jenny L Miller** (Latin)

**Yukun Zhang** (Latin)

### **Eta Sigma Phi**

Honorary society for Classical Studies.

**Genevieve H. Flynn**

**Nadiyah A. Ford**

**Brittany F. Hayes**

**Lauren A. McCormick**

**Brianna C. Randall-DePauw**

**Kelsey L. Quigley**

**Robert J. Spichiger**

## DEPARTMENT OF COMMUNICATION AND THEATRE

### **Don Campbell Award**

For the senior man and woman who contributed most toward theatre while at DePauw, selected by members of Duzer Du, the theatre honorary.

**Joan C. Pankratz**

**Jared P. Norman**

### **Stephen Gentry Scholarship**

For a junior dedicated to excellence in broadcast journalism.

**Katelyn M. Hendrickson**

**Kaitlin F. Klose**

**Carter E. McKay**

### **Margaret Noble Lee, Class of 1882, Prize for the Promotion of Public Speaking**

For success in an extemporaneous speaking contest open to all DePauw students.

**James W. Kirkpatrick**

### **Barbara Petty Award**

For the senior who has shown dedication to DePauw theatre, relative proficiency in an area of theatrical ability, and promise of future professional achievement in theatre.

**Jared P. Norman**

### **Elizabeth Turnell Award**

For the senior with high academic achievement who has contributed the most toward broadcasting and who shows promise of professional achievement in electronic media. Ms. Turnell taught at DePauw and advised WGRE from 1944-1971.

**Ashlyn M. Archer**

### **Lambda Pi Eta**

Honorary society for the National Communication Association.

**Grace P. Adkins**

**Grace K. Ardery**

**Ariella R. Ford**

**William A. Freske**

**Kelly E. Gebert**

**Kathleen B. Green**

**Katelyn M. Hendrickson**

**Caroline A. Heyde**

**Ellen M. Funke**

**Emelie J. J. Johansson**

**Samantha T. March**

**Nora L. Murphy**

**Ashley M. Nelson**

**Qianwen Ni**

**Lauren M. Palmer**

**Anastasia S. Way**

## DEPARTMENT OF ENGLISH

### **Christena Biggs-Kathleen Steele College Writing Award**

For recognition of "greatest achievement" or "greatest improvement" for College Writing. Chris Biggs and Kitty Steele taught at DePauw from 1972-2002 and 1958-1996 respectively.

**Eric C. Bruynsells**

**Christopher R. Crowley**

**Meghali S. Deshmukh**

**Elizabeth K. Dilbone**

**Laura C. Drew**

**Alisha L. Grider**

**Benjamin A. Irons**

**Hang D. La**

**Kun K. Lee**

**Linh K. Nguyen**

**Amanda M. Stephens**

**Ruth T. Vo**

**Richard D. Walsh**

**Kyle M. Zachary**

### **Walker Gilmer Prize**

For the junior or senior English major who is most outstanding in literature. Established in honor of Professor Emeritus of English Walker Gilmer, who taught at DePauw from 1963-1997.

**Victoria S. Googasian**

### **Gilpin Prize in Dramatic Writing**

For a senior who is outstanding in playwriting or screenwriting.

**Joan C. Pankratz**

### **Mary Smith Hamer Journalism Prize**

For a sophomore or junior who has excelled in journalistic endeavors and who demonstrates promise for a career in journalism. Established in memory of Mary Smith Hamer ('70).

**Dana M. Ferguson**

### **J. David Hogue ('21) Journalism Scholarship**

For a sophomore or junior with demonstrated ability and interest in the field of journalism. Established in memory of the distinguished journalist and editor by Mrs. J. David Hogue (Mildred Robinson '21) and Mrs. Harold Corneilsen (Margaret Ellen Hogue '56).

**Michael J. Appelgate**

### **Roy and Anna Kennedy Prize in Creative Writing**

For the senior who has most distinguished himself or herself in creative writing and who shows great promise as an artist. Established by Adam Kennedy ('46) in honor of his parents.

**Kyle J. Macy** (fiction)

**Katie K. Owens** (nonfiction)

### **Chad Kostel Memorial Award**

For a junior or senior who has a commitment to writing as a profession. Given in memory of Chad Kostel, a former student of the Department of English who went on to a career as a writer and editor.

**Rajpreet K. Heir**

### **Elizabeth B. Powell Prize**

For a junior who exhibits outstanding ability in the area of written communications and usage of the English language. Established in 1987 by the friends and family of Mrs. Powell.

**Rebecca J. Buening**

### **Paul Query Prize in Poetry**

For a senior writing major who is an outstanding poet. The award also includes a special feature section in *A Midwestern Review*.

**Connor D. Willett**

### **William G. Schoenhoff Award**

For the senior who, in the judgment of the Department of English, has achieved most in growth during his or her four years at DePauw. Established in memory of Mr. Schoenhoff by his parents.

**Kara L. Bischak**

### **Judith Shakespeare Award**

For a junior or senior English literature major who is exceptionally gifted in literary interpretation.

**Taylor D. Crompton**

### **DeWitt Wallace-Reader's Digest Print Journalism Award**

For juniors who have demonstrated a career interest in print journalism.

**Chase G. Hall**

**Ellen C. Kobe**

## **DEPARTMENT OF HISTORY**

### **Charles and Mary Beard Senior Seminar Prize**

For the outstanding senior seminar paper in the previous academic year. Established by an anonymous donor.

**Tyler A. Archer ('11)**, "Pioneer, Populizer and Politician: John Clark Ridpath as a Public Intellectual"

**Emily H. Smedra ('11)**, "Raised Hands: Education as an Avenue for Agency in Japanese American Internment Camps"



### **Albert J. Beveridge Fellowship in American History**

For graduates of DePauw to pursue graduate programs in historical studies and research.

**Margaret E. Galasso ('11)**      **Laura A. Pearce ('10)**

### **William Wallace Carson History Scholarship**

For academically promising sophomore and junior history majors. Established as a gift from Mrs. Samuel H. Swint in 1968 in honor of Dr. Carson, who taught at DePauw from 1916-1953.

**Carroll T. Bible**  
**Megan R. Spencer**

**Christopher Q. Lamping**  
**Anne M. Wake**

**Anne K. Rivelli**  
**Katherine A. White**

### **John Dittmer Award**

For the senior history major with the highest grade point average in history. Established in honor of John Dittmer, Professor Emeritus in American history.

**Roy R. Leaf**

### **Phi Alpha Theta**

National honorary society for history.

**William A. Calderwood**  
**Leah M. Freestone**  
**Philip D. Gray**  
**Abigail R. Jordan**  
**Andrew R. Lang**  
**Joy H. Mulhollan**  
**Arthur M. Small, IV**  
**Tracy A. Thompson**

**Nicole M. Chokran**  
**David R. Goldense**  
**Hermes R. Grullon**  
**Kylie L. Kaspar**  
**Roy R. Leaf**  
**Jean E. Rebarchak**  
**Megan R. Spencer**  
**Katherine A. Vaky**

**Rachel S. Dauenbaugh**  
**Kyle R. Gough**  
**Naiomy M. Guerrero**  
**Christopher Q. Lamping**  
**Andrew D. Miller**  
**Amy R. Richmond**  
**Alexander J. Sroka**  
**Katherine A. White**

## **DEPARTMENT OF MODERN LANGUAGES**

### **American Association of Teachers of French Outstanding Senior Award**

For excellence in the study of French, an overall high scholastic record, and exceptional commitment to the study of French.

**Sajel E. Tremblay**

### **Professor Ralph F. Carl Endowed Prize**

For the senior with the highest GPA in French through the fall of the senior year. Professor Carl taught at DePauw from 1947-1948 and from 1952-1982.

**Kreigh A. Kamman**

### **G. Hans Grueninger Prize**

For the outstanding student in German. Established by friends and former students of Professor Grueninger at his retirement. Dr. Grueninger taught at DePauw from 1930-1968.

**Marisa L. Rouse**

### **Excellence in Russian Studies**

For superior academic achievement in Russian Studies.

**Cynthia Montoya**

### **Laurel H. Turk and Esther L. Turk Prize for Spanish**

For the senior Spanish major with the highest cumulative GPA in Spanish through the fall semester of the senior year and/or who has made significant contributions to the department.

**Samuel T. Holley-Kline**

### **Laurel H. Turk and Esther L. Turk Scholarship for Spanish Language**

For sophomore or junior students majoring in Spanish, or in another discipline but with a concentration in Spanish, who have demonstrated high academic achievement and/or leadership skills. Dr. Laurel Turk taught at DePauw from 1928-1968.

**David Tykvart**

### **Merle Royse Walker Language Award**

For the outstanding senior in modern or classical languages.

**Samuel T. Holley-Kline**

### **Pi Delta Phi**

National French honorary society.

**Van C. Hoang**  
**Matthew A. Norton**  
**Katherine M. Voskoboynik**

**Kreigh A. Kamman**  
**Carleigh A. O'Brien**

**Nicole M. Koschmeder**  
**Lindsay C. Shake**

### **Sigma Delta Pi**

National Spanish honorary society.

**Samuel T. Holley-Kline**  
**Megan L. Myrehn**

**Wesley M. Jones**  
**Andrew S. Pfaff**

**Molly J. McGonigal**  
**Lisa R. Vidican**

## **DEPARTMENT OF PHILOSOPHY**

### **Bioethics Bowl Team**

Bioethics Bowl is held annually in conjunction with the National Undergraduate Bioethics Conference. It is patterned after the national Ethics Bowl competition, but the focus of the case studies is limited to issues in bioethics. Teams are judged mainly on the clarity and cogency of their arguments and the effectiveness of their responses to the opposing team.

**Bethany A. Buis**  
**Cole P. Rodman**

**Bryan A. Edwards**  
**Mohammad Usman**

**Benjamin C. Hoffman**

### **Ethics Bowl Team**

The Ethics Bowl is a national competition in which teams of 3-5 students debate complex and puzzling moral questions that may deal with personal, professional or social and political ethics. Teams are judged mainly on the clarity and cogency of their arguments and the effectiveness of their responses to the opposing team.

**Kumar K. Amarnath**  
**Alexander M. Landreville**  
**Peter G. Stuart**

**Ethan E. Brauer**  
**Nathan R. Lynch**  
**Mohammad Usman**

**Benjamin C. Hoffman**  
**Sara K. Scully**  
**Robert L. Watson**

### **Phi Sigma Tau**

National honorary society for philosophy.

**Bryan A. Edwards**

**Alexa N. Kovachevich**

# **SCIENCE AND MATHEMATICS**

## **DEPARTMENT OF BIOLOGY**

### **Marcella Fletcher Memorial Award**

For a biology major who is pursuing advanced education.

**Elias M. Oziolor**

### **Dr. John C. Frazier Memorial Prize / Albert E. Reynolds Outstanding Senior Award**

For the outstanding senior biology major.

**R. Joshua Fantus**

**Tanmoy Das Lala**

### **Charles and Frances (Wylie) Condit Science Scholarship**

For a promising sophomore or junior biology major. Established by Mr. and Mrs. Charles M. Condit to assist promising sophomores or juniors to further their studies in the fields of science and mathematics.

**Julia M. Abarr**

**Stephen G. Hesterberg**

**Benjamin C. Hoffman**

**Amanda C. Metternich**

**Rachel E. Rominger**

**Rebecca L. Swearingen**

**Emily E. Vierk**

### **Truman G. Yuncker Endowed Merit Scholarship**

For the outstanding junior biology major. Dr. Yuncker taught botany at DePauw from 1919-1944.

**Megan K. May**

## **DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY**

### **Donald J. Cook Scholarship**

For gifted sophomore or junior chemistry majors. Established by the Percy L. Julian family in honor of Dr. Cook, Professor of Chemistry from 1945-1980, on the occasion of his retirement. Many other admirers of Dr. Cook have contributed over the years to this endowment.

**Wei Tao**

### **Awesome Dawson Award**

For seniors who attend more than twenty seminars over the course of their junior and senior years.

**Virginia J. Bruce**

**Anne K. Hickey**

**Jennifer K. Kosinski**

**Nefertiti Muhammad**

**Elias M. Oziolor**

### **Percy L. Julian Memorial Scholarship**

For talented students, based on excellence and potential for success, to pursue training in chemistry and other fields. Established by the late Anna Julian in memory of her distinguished husband, Dr. Percy L. Julian ('20), scientist, civil rights activist, and businessman, as well as trustee and benefactor of DePauw University.

**Jack E. Burgeson**

**Mark A. Fadel**

**Christina M. Gale**

**Kwame E. Newton**

**Yandan Ni**

**Madjine Nzeyimana**

**Jamie Y. Story**

**Xin Zheng**

### **Elliott Morrill Fellowship**

For student-faculty collaborative research during the summer between the junior and senior year. Students are chosen for their interest in research, strong academic credentials, and goals to pursue the chemical sciences after graduation.

**Maximilian N. Bush**

**Qian He**

### **John Ricketts Endowed Prize in Physical Chemistry**

For the student who shows the highest achievement in physical chemistry. Established by former students of Professor Ricketts, who taught at DePauw from 1952-1989.

**Brian J. Groendyke**

**Andrew S. Pfaff**

### **Charles and Frances (Wylie) Condit Science Scholarship**

For a promising sophomore or junior chemistry or biochemistry major. Established by Mr. and Mrs. Charles M. Condit to assist promising sophomores or juniors to further their studies in the fields of science and mathematics.

**Rachel L. Gearinger**

**Colin G. Neill**

## **Phi Lambda Upsilon**

Chemistry honorary society.

**Courtney E. Brimmer**  
**Joanna L. Dukes**  
**Paul B. Fesenmeier**  
**Rachel L. Gearinger**  
**Qian He**  
**Bok Eum Kang**  
**Katherine M. Logan**  
**Robert A. McPike**  
**Michael G. R. Padilla**  
**Lisa A. Poole**  
**Boxin Tang**

**Virginia J. Bruce**  
**Alexandra E. Ehr**  
**Francis K. Fordjour**  
**Brian J. Groendyke**  
**Anne K. Hickey**  
**Sarah M. Kortebein**  
**Rachel M. MacBeth**  
**Joshua E. Miller**  
**Daniel T. Piedmonte**  
**Amy R. Richmond**  
**Sajel E. Tremblay**

**Ann E. Collier**  
**Mark A. Fadel**  
**Christina M. Gale**  
**Peter J. Haigh**  
**Kreigh A. Kamman**  
**Matthew A. Kukurugya**  
**Thomas G. Maloney**  
**Elias Oziolor**  
**Andrew S. Pfaff**  
**Dana C. Sprague**  
**Xinyi Wang**

## **DEPARTMENT OF COMPUTER SCIENCE**

### **Outstanding Service to the Computer Science Department**

For a computer science major who contributes exceptional service to one of the department's programs.

**ShanKara B. Johnson**

### **Robert J. Thomas Outstanding Computer Science Senior**

For an academically excellent senior Computer Science major carefully selected by all members of the Computer Science faculty. Dr. Thomas taught at DePauw from 1958-1991.

**Catherine M. Baker**

### **Charles and Frances (Wylie) Condit Science Scholarship**

For a promising sophomore or junior computer science major. Established by Mr. and Mrs. Charles M. Condit to assist promising sophomores or juniors to further their studies in the fields of science and mathematics.

**Da Huo**

**Bradley P. Wethington**

### **DePauw Computer Science Honorary Society**

For junior and senior computer science majors, who are admitted on the basis of outstanding academic achievement in their computer science coursework.

**Catherine M. Baker**  
**Jianling Fang**  
**Patrick G. Herrod**  
**Brent M. Hume**  
**Lei Liang**  
**Eriya Terada**

**James W. Burgess**  
**David W. Garrett**  
**Morgan M. Hooks**  
**Da Huo**  
**Jonathan A. Saddlar**  
**Yucheng Weif**

**Reid T. Conner**  
**Mengxiao Han**  
**Dylan L. Howard**  
**Zachary A. Keller**  
**Botong Sui**  
**Bradley P. Wethington**

## **DEPARTMENT OF GEOSCIENCES**

### **Dr. Charles Leonard Bieber Scholarship**

For sophomores or juniors excelling in the major of geosciences. Established by Professor Bieber, who served as department chair from 1947-1965.

**Mackenzie M. Cremeans**  
**William T. Joseph**

**Katharine C. Doron**  
**Katherine R. Shover**

**Carly T. Dutkiewicz**  
**Anna C. Urso**

### **Hugh Richard Gault Memorial Fund**

For worthy students majoring in geosciences. Established by Arrabella B. Gault in honor of her husband, Hugh Richard Gault ('36), a Rector Scholar active in science and civic and school affairs.

**Brittany L. Slate**

### **Ernest Rice “Rock” Smith Memorial Scholarship**

For geosciences majors with a cumulative GPA of at least 3.25. Established by the former students of Ernest “Rock” Smith, who was head of the Department of Geology from 1921-1947, in recognition of his excellence and dedication as a teacher. Prof. Smith retired to Ithaca, New York, and served as president of the Paleoanthropological Research Institute until his death in 1952.

**Ariana A. Borrello**  
**Reilly S. Taylor**

**Lauren C. Krumwiede**

**Martha M. Parsons**

### **Charles and Frances (Wylie) Condit Science Scholarship**

For a promising sophomore or junior geosciences major. Established by Mr. and Mrs. Charles M. Condit to assist promising sophomores or juniors to further their studies in the fields of science and mathematics.

**Gregory B. Screws**

**Madison R. Gallegos**

## **DEPARTMENT OF KINESIOLOGY**

### **Charles and Frances (Wylie) Condit Science Scholarship**

For a promising sophomore or junior kinesiology major. Established by Mr. and Mrs. Charles M. Condit to assist promising sophomores or juniors to further their studies in the fields of science and mathematics.

**Benjamin J. Hazen**

### **Kappa Omicron Nu**

The honor society for students in kinesiology.

**Katherine E. Broecker**  
**Kevin E. Enchelmeyer**  
**Katherine S. Morrison**  
**Hannah F. Roy**  
**Rachel G. Wheaton**  
**Gina M. Zerbini**

**Christine A. Clement**  
**Amy C. Hallett**  
**Claire E. M. Rhoades**  
**James F. Schweitzer**  
**Emily M. White**

**Andrew D. Desmarais**  
**Aaron P. Henry**  
**Katherine E. Richmond**  
**Samantha M. Szyska**  
**Tyler D. Witherspoon**

## **DEPARTMENT OF MATHEMATICS**

### **H.E.H. Greenleaf Memorial Award**

For worthy students majoring in mathematics. Established in memory of Herrick Greenleaf, who taught at DePauw from 1921-1960.

**Jonathan D. Cripe**

**Duc Minh Pham**

### **Charles and Frances (Wylie) Condit Science Scholarship**

For a promising sophomore or junior mathematics major. Established by Mr. and Mrs. Charles M. Condit to assist promising sophomores or juniors to further their studies in the fields of science and mathematics.

**Mark N. Ditkof**

**Bolun Peng**

### **Association for Women in Mathematics**

The Association for Women in Mathematics (AWM) is a non-profit organization founded in 1971. AWM's main goal is to encourage women in the mathematical sciences. AWM currently has more than 4100 members (women and men) representing a broad spectrum of the mathematical community, from the United States and around the world.

**Catherine M. Baker**  
**Shelby L. Bridges**  
**Wenjun Ge**  
**Claire E. Hollis**  
**Amanda R. Russ**  
**Rong Wang**  
**Jieyu Zhang**  
**Sijia Zhu**

**Cassandra Bauhan**  
**NingXiaoxi Chang**  
**Lee A. Harmon**  
**Chengyuan Huang**  
**Casie J. Sambo**  
**Xinyu Wen**  
**Yue Zhang**

**Emily J. Bichler**  
**Katherine M. Devillebichot**  
**Ha Thu Hoang**  
**Allison M. Mousel**  
**Mengfei Shao**  
**Dandan Zhang**  
**Yuqi Zhao**

## DEPARTMENT OF PHYSICS AND ASTRONOMY

### **O. H. Smith Endowed Scholarship**

For junior or senior physics majors who have demonstrated exceptional ability and potential. Established by friends and former students of O. H. Smith, who taught at DePauw from 1925-1952.

**Mateos B. Kassa**

**Weiyong Zhang**

### **Austin D. Sprague Scholarship**

For a sophomore or junior physics major. Established by Austin Sprague, Professor of Physics from 1946-1971.

**Andrew D. Ledbetter**

### **Charles and Frances (Wylie) Condit Science Scholarship**

For a promising sophomore or junior physics major. Established by Mr. and Mrs. Charles M. Condit to assist promising sophomores or juniors to further their studies in the fields of science and mathematics.

**Ethan E. Brauer**

### **Sigma Pi Sigma**

National physics honor society.

**Ethan E. Brauer**

**NingXiaoxi Chang**

**Akanksha Chawla**

**Joseph H. Collins**

**Brian D. Good**

**Ruizhe Ma**

**Drew M. Rohm-Ensing**

## DEPARTMENT OF PSYCHOLOGY

### **Rex Rector Service Award**

For senior psychology majors who have shown outstanding achievement in the area of human service. Given in memory of Dr. Rector, who taught in the psychology department at DePauw from 1957-1980.

**Rachel L. German**

**Katherine M. Wood**

### **Senior Thesis Seminar Award**

For senior psychology majors for outstanding performance on senior research projects and senior theses.

**Rachel L. German**

**Van C. Hoang**

**Lichen Xu**

### **Kenneth S. Wagoner Research Award**

For the senior psychology major who has shown the highest research potential and dedication to experimentation as the surest road to an expanding and dependable structure of knowledge. Given in honor of Dr. Wagner, an outstanding researcher and scholar, who taught at DePauw from 1946-1977.

**Rachel L. German**

### **Charles and Frances (Wylie) Condit Science Scholarship**

For a promising sophomore or junior psychology major. Established by Mr. and Mrs. Charles M. Condit to assist promising sophomores or juniors to further their studies in the fields of science and mathematics.

**Bridgette E. Shamleffer**

**Margarita Nikonova**

### **Psi Chi**

National honorary society for psychology.

**Katherine M. Anderson**

**Abena W. Benjamin**

**Karen H. Block**

**Mary C. Brody**

**Christine T. Crowe**

**Jennifer M. Evans**

**Emily C. Friend**

**Kristin H. Jonason**

**Mary K. Lear**

**Patrick S. Ledwidge**

**Meredith A. Menzel**

**Christine F. Norris**

**Chelsea N. Ohler**

**Alicia J. Smallwood**

**Lindsay E. Vandivier**

**Katherine M. Wood**

# S O C I A L   S C I E N C E

## DEPARTMENT OF ECONOMICS AND MANAGEMENT

### **Frank T. Carlton Senior Award**

For the outstanding senior economics major. In honor of Frank T. Carlton, who taught at DePauw from 1919-1927.

**Huyen K. Nguyen**

### **Randal L. Wilson Memorial Award—Junior**

For a junior economics major who shows a sincere dedication to the field of economics and is judged most likely to make a positive and worthwhile contribution to that field in the future. Established by Margaret Hardgrove Wilson ('41) and her husband Robert in memory of their son.

**Adam E. Weaver**

### **Randal L. Wilson Memorial Award—Senior**

For the senior economics major who has contributed the most to the Department of Economics and Management at DePauw and to the field of economics in general, and who shows promise in the future. Established by Margaret Hardgrove Wilson ('41) and her husband Robert in memory of their son.

**Aishwarya Subbaraman**

## DEPARTMENT OF EDUCATION STUDIES

### **Education Studies Department Award**

For a transformative intellectual who through coursework and extracurricular activities has demonstrated an awareness of personal power and agency, the ability to engage in social critique and problem solving, and who consequently takes informed and principled action in the interest of social justice.

**Kathryn A. Strader**

### **Robert H. and Vera May Farber Outstanding Senior in Education Award**

For the most outstanding senior majoring in education studies based on GPA. Dr. Robert H. Farber taught and served as dean at DePauw from 1936-1936 and 1937-1979.

**Allison M. Mousel**

## DEPARTMENT OF POLITICAL SCIENCE

### **Richard Watson Bunch Memorial Scholarship**

For the outstanding junior political science major. Established by Mrs. Richard W. Bunch (Eugenia Anderson '29) in honor of her husband.

**Carroll T. Bible**

**Annie E. Bowers**

**David Tykvart**

### **Stephen Charles Sellett Memorial Award**

For the outstanding senior political science major. Established in 1971 by Dr. and Mrs. Thomas Sellett in honor of their son, Stephen Charles Sellett, a DePauw graduate who was killed in action in Vietnam in 1970.

**Kara L. Bischak**

### **Pi Sigma Alpha**

National political science honorary society.

**Brian G. Banta**

**Annie E. Bowers**

**Hermes R. Grullon**

**Andrew R. Lang**

**Natasha V. Oliver**

**David Tykvart**

**Carroll T. Bible**

**Christopher C. Clark**

**Katelyn T. Hayes**

**Katherine M. Logan**

**Lindsay C. Shake**

**Clinton J. Bird**

**Allyson C. Faust**

**James W. Kirkpatrick**

**Austin H. Miller**

**Anna G. Sterry**

## DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

### **Paul C. Glick Award**

For an outstanding senior in sociology and anthropology. Established by Paul C. Glick ('33), professor emeritus at Arizona State University, past president of the Population Association of America and for many years Senior Demographer of the U.S. Bureau of Census.

**Nicholas Flores**

### **Roland Naylor Award**

For students interested in conducting fieldwork in anthropological archaeology.

**Daniel J. Welsh**

### **Alpha Kappa Delta**

National sociology honorary society.

**Danielle M. Brown**

**Ashley A. R. Castillo**

**Gwendolen L. Eberts**

**Elizabeth M. Hosier**

**Jeffrey A. Perkins**

**Blair E. Romer**

**Lindsay M. Camplin**

**Sydney L. Crouch**

**Ariella R. Ford**

**Tamesha N. McGuire**

**Kathryn R. Petrovich**

**Mallory K. Stidham**

**Jane K. Carlisle**

**Kimberly A. Dickow**

**Berkley S. Frost**

**Rebecca K. Myer**

**Kelsey L. Quigley**

### **Lambda Alpha**

National collegiate honorary society for anthropology.

**Laura E. Arvin**

**Gwendolen L. Eberts**

**Ryan V. Jones**

**Caitlin Y. McKinley**

**Amanda M. Russ**

**Daniel J. Welsh**

**Lindsay M. Camplin**

**Ariella R. Ford**

**Yonnette V. Joseph**

**Maggie C. Pajakowski**

**Bridgette E. Shamleffler**

**Leah V. Weprich**

**Brittni E. Crofts**

**Samuel T. Holley-Kline**

**Emma R. Lanham**

**Kevin D. Rusie**

**Mallory K. Stidham**

## HONORS AND FELLOWS PROGRAMS

### HONOR SCHOLAR PROGRAM

#### **Dr. Irving Serlin Distinguished Honor Scholar Award**

For the graduating senior in the Honor Scholar Program who best exemplifies the ideals of an Honor Scholar.

**Roy R. Leaf**

**Samuel T. Holley-Kline**

**Aishwarya Subbaraman**

#### **2011-2012 Honor Scholar Program Graduates**

**Macy E. Ayers**, " 'Fraught with Zigzags': A Realist Examination of Evolving Great Power-Israeli Relations"

**Taylor A. Beaty**, "Untold Stories of Human Cargo"

**Danielle N. Boyd**, "Parallel Lives: Similarities Between the Lived Experiences of Persons with Cancer and HIV"

**Laura E. Bruce**, "My Life was Worth Something: Biographical and Autobiographical Memoirs"

**Matthew W. Cecil**, "Life Beyond the Haze: The Risks, Reasons and Rewards of Dealing and Doing in College"

**Daniel K. Cetina**, "From Caped Crusader to Dark Knight: An Application of Robert Ray's Official/Outlaw Hero Framework to Batman"



**Samuel T. Holley-Kline**, “Consecration of the City of the Gods: Teotihuacan, 1891-1922”  
**Stewart E. Jones**, “Mzungus, Mugazi, & Mitengos: A Case Study of HIV/AIDS Education in Lilongwe, Malawi”  
**Nicole M. Koschmeder**, “Romance Novel Heroines Don’t Judge Books By Their Covers, Do You?: Popular Perceptions of the Romance Genre Investigated”  
**Roy R. Leaf**, “ ‘A way that can be walked is not The Way and a name that can be named is not The Name’: My Complex Crusade Through Systems, Nature, and Taoist Text for Solutions on Proper Leadership”  
**Katherine M. Logan**, “Minority Rights and Health Care Equity in Turkey”  
**Kyle J. Macy**, “M.O.O.H. (Mirrors and Other Occupational Hazards), by C. T. Hamsford”  
**Kristina M. McLane**, “Red Chairs and Green Monsters: The Evolution of Fan Culture in Boston Baseball”  
**Shreeya Neupane**, “Remittance and Poverty Reduction: A Study of Post-Conflict Migration from Nepal”  
**Phuong H. Nguyen**, “Causes of the Vietnamese Braindrain Syndrome”  
**Katie K. Owens**, “The Cinderella Connection: Structural Resonance of a Narrative Motif”  
**Alyssa J. Pilli**, “The History of Foreign Language Pedagogy: From Methodology to Psychology”  
**Aishwarya Subbaraman**, “Extraction Politics: An Economic Analysis of Rare Earth Elements”  
**Elaine C. Wiley**, “From ‘Three or Four Families’ to the Global Screen: Jane Austen’s Cinematic Popularity in the 1990s”  
**Katherine M. Wood**, “Predicting Flow at Work: An Investigation of Motivation, Task Characteristics, and Personality Traits”

## MANAGEMENT FELLOWS

### 2011-2012 Management Fellows Program Graduates

<b>Morgan M. Hooks</b>	<b>Minh T. Ly</b>	<b>Margaret L. McDaniel</b>
<b>Megan L. Myrehn</b>	<b>Huyen K. Nguyen</b>	<b>Allison M. Paul</b>
<b>Kevin D. Rusie</b>	<b>Ethan A. Schweir</b>	<b>Bradley B. Shewalter</b>
<b>Nathan C. Smith</b>	<b>Connor D. Stallings</b>	<b>Liqiang Ye</b>
<b>Catherine F. Napier</b>		

## MEDIA FELLOWS

### 2011-2012 Media Fellows Program Graduates

<b>Ashlyn M. Archer</b>	<b>Luke P. Bretscher</b>	<b>Jenna M. Buehler</b>
<b>Matthew W. Cecil</b>	<b>Rachel A. Cheeseman</b>	<b>Phoebe L. Duvall</b>
<b>Elizabeth A. Harrison</b>	<b>Samantha T. March</b>	<b>Molly J. McGonigal</b>
<b>Marisa L. Rouse</b>		

## SCIENCE RESEARCH FELLOWS

### 2011-2012 Science Research Fellows Program Graduates

<b>Elizabeth M. Anichini</b>	<b>Catherine M. Baker</b>	<b>Lindsey Bauman</b>
<b>Courtney E. Brimmer</b>	<b>Virginia J. Bruce</b>	<b>Ann E. Collier</b>
<b>Jonathan D. Cripe</b>	<b>Bryan A. Edwards</b>	<b>Jianling Fang</b>
<b>Kelsey R. Gagesch</b>	<b>Kreigh A. Kamman</b>	<b>Sarah M. Kortebein</b>
<b>Ruizhe Ma</b>	<b>Elias M. Oziolor</b>	<b>Xinyi Wang</b>

# NATIONALLY COMPETITIVE FELLOWSHIPS AND AWARDS

## **DAAD (German Academic Exchange Service) Scholarship**

DAAD awards competitive, merit-based grants for use toward study and/or research at German universities and institutions of higher education.

**Jonathan D. Cripe**, Gravitational Wave Research at the Max Planck Institute for Gravitational Physics (Hannover, Germany)

## **Fulbright U. S. Student Program Grants**

The largest U.S. international exchange program, Fulbright offers opportunities for students, scholars, and professionals to undertake international graduate study, advanced research, university teaching, and teaching in elementary and secondary schools worldwide.

**Kara L. Bischak**, English Teaching Assistantship with a focus on India's Three Language Formula (India)

**Samuel T. Holley-Kline**, Study/Research Grant: "Ancient Pyramids, Modern Populations: Totonac Perspectives on El Tajin (Mexico)

**Stewart E. Jones**, English Teaching Assistantship with a focus on Women Students and Creative Expression (Malaysia)

**Case M. Nafziger**, English Teaching Assistantship with a focus on Korean Folk and Pop Music (South Korea)

## **Benjamin A. Gilman International Scholarship**

The Gilman Scholarship Program aims to diversify the kinds of students who study abroad and the countries and regions in which they study.

**Hermes R. Gullon** (semester of study in El Salvador and Nicaragua)

**Sasha M. Pena** (semester of study in the United Kingdom)

## **Barry M. Goldwater Scholarship**

The Goldwater Scholarship Program encourages outstanding students to pursue careers in mathematics, the natural sciences, or engineering and fosters excellence in these fields.

**Bradley P. Wethington** (computer science)

**Tyler L. Perfitt** (biology)

## **National Science Foundation Graduate Research Fellowship**

The NSF Program provides three years of support for outstanding graduate students pursuing research-based master's and doctoral degrees in the fields of science and engineering.

**Catherine M. Baker** (computer science)

## **Woodrow Wilson Teaching Fellowship**

The Woodrow Wilson Teaching Fellowship seeks to recruit, prepare and retain effective teachers for the students and schools who need them most.

**Joshua M. Yoder** ('11)

*The recipients of other nationally competitive fellowships and awards  
will be announced later in the spring.*

# WALKER CUP FINALISTS

## **Michelina Ferrara**

When Michelina Ferrara received The Posse Foundation scholarship to DePauw, a trainer told her, “Sometimes you need to go to a place that needs you, so you can figure out why you need it.” Four years later, this statement encapsulates her DePauw experience. As a first-generation college student and Italian-American woman, she did not know how she would fit into Greencastle or the DePauw community. Her untraditional love for DePauw, her new home, began when she stepped on campus with a thick New York accent, bright high-top sneakers, and activist identity. Her difference was challenged here; it made others uncomfortable, and she felt asked to conform. Ultimately, this difference became the source of her deepest motivation to create change on issues of violence, community building, women’s empowerment, and intellectual “uncomfortability.” The inner turmoil that she felt while at DePauw caused an ongoing process of adapting and disrupting. For Michelina, disrupting a space is not about leaving it in chaos; it is about loving it enough to take all the fragments, challenging them, building bridges among them, and rather than just receiving all of the pieces, claiming a new, holistic space. Michelina’s way of loving DePauw connects her with those who have advocated for difference over the past 175 years, allowing her to see that this community, as each of us, is constantly in process—finding our DePauw(s) and finding ourselves. Michelina believes that “we say DePauw differently, we see DePauw differently, and we *contribute* to DePauw differently.”

## **Nicholas “Nic” Flores**

Nicholas “Nic” Flores is a native of Olton, TX. Nic’s life has been primarily shaped by community service and service learning. His academic interests have led him to study anthropology with a concentration in women’s studies. He is the Paul C. Glick Award Winner for the outstanding senior in sociology and anthropology. Last summer, Nic conducted research at The Ohio State University and authored a paper, “Immigrant Identities: Queer Latin@ Community Development in Columbus.” Nic’s experiences at DePauw have been enhanced through a variety of community service programs including the Bonner Scholars program. Nic served as the Executive Vice President of the Student Body, a Compton Center Intern, a DePauw Environmental Policy Project Intern, a Sustainability Intern and a Domestic Violence Intern for Putnam County Family Support Services. He has been a member of the Committee for Latino Concerns, United DePauw, DePauw Environmental Club, and the DePauw Multicultural Student Advisory Board and was an anchor and reporter for D3TV. He plans to pursue graduate school next fall at The Ohio State University where he will pursue a Ph.D. in comparative studies. His areas of interests will include Latin@ studies with a bridge to women’s studies and queer studies. In the future, Nic hopes to complete graduate school, teach, and conduct research.

## **Kreigh A. Kamman**

Kreigh Kamman is a double major in biochemistry and French from Granger, Indiana, where he graduated as valedictorian and class president of Clay High School. At DePauw, he has served as an executive member for Timmy Global Health, an Indianapolis-based nonprofit group working to expand access to healthcare and empowering volunteers in global development, and is currently serving as a Presidential Ambassador, a DePauw First-Year Mentor, the secretary for Mortar Board, and the philanthropy chair for Phi Kappa Psi Fraternity. As a Science Research Fellow, Kreigh has pursued numerous research experiences. In the spring of 2011, he studied in Paris where he conducted research (in French) in molecular oncology at the Institut Curie. His Winter Term experiences have included travel to French Polynesia and an internship at the South Bend Memorial Hospital Leighton Trauma Center. Additionally, Kreigh is a four-year starter and All-Conference Player on the men’s varsity soccer team and has been named an Academic All-American by Capital One (2012), Academic All-District by Capital One (2011), and Academic All-District by ESPN (2010). Kreigh is the fifth family member to have attended DePauw, and, upon graduation, he looks forward to serving DePauw in as many ways possible.

## **Charles F. J. Pierre**

Charles Pierre is a French major most recently from New York, New York. He grew up in Jackson, Mississippi, then moved to Haiti where he spent five formative years learning that poverty and access to basic human needs were not common everywhere in the world. This past year, Charles has gratefully served as the president of the student body. He is a Bonner Scholar and enthusiastically coaches the Under 18 Putnam County Youth Soccer Association Soccer Team, the Greencastle Panthers. He is Founder and President of Tigers for Haiti, a student organization that has raised awareness for earthquake relief. Through "Hope for Haiti," Charles helped raise over \$4,000 immediately following the 2010 earthquake. This past winter term Charles returned to Haiti and spent three weeks serving this community. Charles is the director and producer of "Things are Things," a mini-documentary that explores Hurricane Katrina's devastating effects on the Gulf Coast of Mississippi and the media's neglect of this area. While at DePauw, Charles worked as a summer associate at Kiley, Kiley & Kiley, PLLC, as the media director at the Titan Group, and as an intern at Infratek, S.A. He has been a senator for DePauw Student Government, a Tiger Ambassador, Alumni Chair for Phi Delta Theta, and member of the men's track team.

# SENIOR SHOWCASE PARTICIPANTS

**Daniel A. Allen**, *Political Science*, “Personality Matters!: Linking the Five Factor Model to Presidential Management Styles”

The question this paper seeks to answer is: how well do individual personality traits correlate with preferred styles of management? This question will be examined by comparing the personality traits and management styles of U.S. presidents, with data collected from fraternity Presidents at DePauw University who governed during the fall 2011 semester. Every executive, regardless of whether they are president of a fraternity, or President of the United States, must structure their organization. As a result, it is plausible to suggest that the way in which a leader structures his organization, might shed some light on whether personality or context matters more. If executives with similar personality traits prefer similar styles of management, then it would be clear that personality matters. This paper makes a novel contribution by linking Alexander L. George’s management models of U.S. Presidents to these presidents’ “big five” personality traits. Furthermore, the collection of original data on fraternity presidents’ Big Five traits and management styles will be used to demonstrate the applicability of these hypotheses to leaders beyond U.S. Presidents.

**Catherine M. Baker**, *Computer Science*, “Circuit Synthesis for Cryptographic Applications”

As there is not currently a method that can find the optimal circuit for every possible input, the goal of the project is to improve heuristics to find optimal circuits. An optimal circuit can be defined in a variety of ways: small number of AND gates, small number of total gates, small depth, etc. The circuits we are working with contain only XORs and AND gates and we have focused on reducing the depth of circuits as a smaller depth allows the circuit to run faster.

**Elizabeth A. Botts** (research with Matthew Keinsley), *Biology*, “The Effect of Climate Change on the Medicinal Plant Purslane (*Portulaca oleracea*)”

Climate change is a form of stress to plants. Increased temperatures, drought and salinity are expected to have significant effects on the growth and chemical composition of medicinal plants. We have been investigating the effect of drought and salinity on the medicinal plant purslane, known for its high levels of important fatty acids and betalain pigments, using methods from both ecology and chemistry. Several genotypes of purslane were grown under various stress levels in a genotype by environment experiment. Plant growth and fitness were monitored via morphological parameters. The chemical response to stress was measured by a combination of single point measurements (e.g. antioxidant levels) and metabolomic approaches (spectroscopic methods such as visible spectra and IR spectra). This poster will present the results to date.

**Virginia J. Bruce and Lisa A. Poole**, *Chemistry and Biochemistry*, “Multiple Crystal Structures of a Metal-Responsive Repressor MA4344”

Within the biological domain, *Archaea*, there exists a diverse group of organisms known as extremophiles that can survive in typically inhospitable environments. *Methanosarcina acetivorans* (MA) is an example, thriving in soils with characteristically high metal concentrations. To cope with the high stress, MA employs a metalloregulatory system by using a metal-responsive transcription factor, MA4344, to sequester metal. The exact mechanism of control, however, is not fully understood. Using protein X-ray crystallography to investigate the metal binding properties, we report multiple crystal structures of MA4344 in various metal bound states.

**Ashley N. Carney**, *Music Education*, “Music Education Student Teaching Experience”

Spending a semester student teaching was more fun and rewarding than I had imagined it would be. After working alongside my cooperating teacher, teaching five orchestra classes and one guitar class, I have gained new insights on my own philosophy of music education, classroom management styles, and just what it is like working with middle school students. In this presentation, I will share with you my student teaching experience at Belzer Middle School in Indianapolis, Indiana.

**Sarah R. Chamberlain**, *Music Performance* (flute), *Erinnerung an Mozart* – composed by Jindrich Feld (1925-2007)

*Erinnerung an Mozart* ("Remembrance of Mozart") by Czech composer Jindrich Feld whimsically references the works of Mozart (particularly his opera *Die Zauberflöte*) in a very modern piece. Feld reworks aspects of the opera's music to create a traditionally-formatted but totally fresh tribute. Two major themes are the ascending 16th-note motive--the magic flute of Papageno, the bird man--and a solemn march which, in Feld's reimagination, has its pomp undermined by the use of humorous, percussive extended techniques.

**Ellen M. Clayton**, *Political Science*, "Women Who Lead Matter: How Women's Incorporation in Leadership Has Changed the Game of Politics"

Does the inclusion of women change leadership and the way that decisions are made? This essay analyzes this important question, examining how the differences in female's and male's personalities impact leadership. This essay compares the leadership traits of female and male Secretaries of State using Peg Hermann's Leadership Trait Analysis. General stereotypes about women inform the traits that encompass femininity, and it is expected that females' leadership will fall in line with these traits. Females will be more compassionate and collaborative than males; they will more often respect constraints, and will be more open to information. Women's motivation for leadership will have a relationship focus, rather than a task focus. If this motivational style is also reflected in the leadership of men, does this signal the potential for a change regarding gender expectations in political culture?

**Alyssa G. Collin**, *Religious Studies*, "Summer Camps and the Jewish Experience: Jewish Life Redefined"

This project explores how summer camps offer a context for a child to experience and redefine Jewish life. It acknowledges that camps played a major role in Jewish history and identity formation since Biblical times. Modern Jewish camps play a similar role. They help to shape a child's psychological and spiritual orientation. In particular, modern summer camps create a new Jewish environment through informal education and weaving Judaism into daily life. In the process, children develop a love for camping, discover their faith, and new ways to express it.

**Jonathan D. Cripe**, *Physics and Astronomy*, "Design Considerations of a Fiber Feed for a Cryogenic Polarizing Interferometer"

Gravity is much weaker than the three other fundamental forces. Recent theories have suggested that gravitational attraction will deviate from the inverse-square law when two objects are less than one millimeter apart. It is very difficult to measure these small deviations from the typical behavior of gravitational attraction. This project helped to design one part of the necessary detection equipment.

**Bryan A. Edwards**, *Philosophy*, "Research in Prison Populations"

Medical advances often require human subject testing to evaluate research success. Participation in a research study is often contingent on informed consent. One concern is whether this consent is possible, particularly in incarcerated populations. By evaluating the ability of prison inmates to make research decisions in an informed, free, and rational capacity, though there are many pitfalls to be avoided, it is possible for subjects in prison populations to fulfill these criteria and thus provide informed consent.

**Lucy L. First**, *Religious Studies*, "Irish Pilgrimages: the Synthesis of Irish Religious Heritage and the Formation of a New Religious Identity"

The Republic of Ireland is a synthesis Catholic and Celtic religions. Irish pilgrimages express this synthesis. Today, Irish Catholics are less inclined to strictly follow the teachings of the Irish Catholic Church because of societal changes and crises that result from the industrialization of the country and increased media scrutiny. In response, they are turning to other religious practices, including their indigenous religious heritage, for further spiritual direction. The project explores how pilgrimages and reconnection with various aspects of Celtic heritage are helping to forge a new Irish religious identity.

**Nicholas Flores, *Sociology and Anthropology*, “Political Negotiation of Identities: Latina/os and LGBTQ Campus Communities”**

Scholarship on Latina/o identities has created a portrait of these communities as monolithic, singular, and rigid. Using participant observation and interviews, specifically with Latina/os students who identify as LGBTQ on DePauw's campus, I attempt to problematize this idea. Recent debates centered on identity politics within minority communities have allowed scholars to investigate intersections between the Latina/o and LGBTQ communities. The aim of my analysis is to inform how students perceive, engage, and negotiate Latina/o and LGBTQ identities on DePauw's campus.

**Kelsey R. Gagesch, *Biology*, “The Relationship Between the Timing of Diapause in Swallowtail Butterfly Species”**

Generation length of swallowtail butterflies, in conjunction with the onset of freezing conditions in the autumn, has potential consequence for the evolution of diapause timing. Theoretical argument suggests the optimal time of entering diapause is one generation before the onset of unfavorable conditions. We used historical climatic data, field estimates of diapause timing and generation length data to find the predicted end of the season. Under the hypothesis that generation length and the onset of freezing are the main factors affecting diapause timing, the estimated date of the end of the season should have been similar in the four species studied. They were not, suggesting that the ecological factors affecting the timing of diapause may vary.

**Rachel L. German and Van C. Hoang, *Psychology*, “Now or Later: Exposure to Attractive Individuals Affects Partner Assessment and Impulsivity”**

Research indicates that exposure to attractive individuals (for men) and dominant individuals (for women) of the opposite sex can increase impulsivity and risk-taking, and decrease assessments of current relationships and partners. Our study seeks to replicate these findings while also extending research by incorporating ovulatory status and sociosexual orientation.

**Victoria S. Googasian, *English (literature)* – “Wildlife of the Translated World: Exploring Animality in Amitav Ghosh's *The Hungry Tide*”**

This paper traces the representation of animals in Ghosh's *The Hungry Tide*, particularly the predatory tigers that stalk this fictionalized version of the Bengali tide country. I argue that while the novel attempts to rehabilitate its animal figures by endowing them with human-like awareness of language, Ghosh preserves the category of animality for the his subaltern human characters. The silent or speechless villagers who make their homes in tiger country eventually suffer an animal fate, sacrificed to ensure the humanity of the novel's protagonists.

**Rajpreet K. Heir, *English (writing)* – “Indian in Indiana”**

A precocious first-generation Indian girl with British parents deals with an East/West tug-of-war while growing up in an ordinary Indianapolis neighborhood in this non-fiction piece. The stress of being an outsider is felt by all members of her family as they try to assimilate to Hoosier culture. One way to regain power is to lash out at those weakest and closest in proximity.

**Anne K. Hickey, *Chemistry and Biochemistry*, “Synthesis and Characterization of Novel, Metal-Containing Ionogels”**

Ionogels are innovative substances made from ionic liquids, and are known for their conductivity and low volatility. Unique metal-containing ionogels have been synthesized with 1-ethyl-3-methylimidazolium ethyl sulfate, nickel, and gadolinium. The gels are green due to the presence of nickel, but the role of gadolinium has yet to be understood. IR spectroscopy identifies components of the gels, while thermogravimetric analysis and differential scanning calorimetry analyze the thermal properties of the gels. Synthesis tests have shown that gadolinium can be replaced with samarium, europium, and terbium. Future applications of the gels could include batteries, catalysis, and sensing.

**Morgan M. Hooks**, *Economics and Management*, “Liberal Arts Schools and the Macro Economy”

The difference between expenses per student and fee charged (defined as subsidy) by top liberal arts schools is investigated using regression analysis. The relationship between the financial characteristics of these schools and the macro economy from 2001-2010 is explored using data from the Integrated Postsecondary Education Data System. This study concludes that macroeconomic variables, such as GDP, as well as financial characteristics together explain the amount of subsidy offered by a school.

**Sara D. Horton**, *Music Performance (voice)*; accompanied by Tony Weinstein, piano, “Goodbye, World” from *Our Town* - composed by Ned Rorem (b. 1923)

Summer, 1913: Act III begins with the death of Emily Webb, the opera's protagonist. She appears in the town cemetery, amongst the dead who urge her to accept her circumstances, but she longs to return to her loved ones above ground. After pleading with the Stage Manager, and despite urging from the other dead souls that it will only bring her more pain, she returns to the day of her thirteenth birthday. Once there, however, she finds that no one seems to realize the importance of each moment, or how fleeting are joy and life. Emily falls to tears and begs the Stage Manager to take her back up the hill to her grave, but not before she sings this aria, in which she bids farewell to Grover's Corners, the people she loved, and all the seemingly arbitrary miracles in her life.

**Amanda B. Hughes** and **Katherine A. Janowski**, *Psychology*, “Facial Attractiveness and Appropriateness of Dress on First Impressions of Personality Attributes”

This study examines the effects of facial attractiveness and appropriateness of dress within a specified situational context on first impression formation. Participants rated stimuli of various attractiveness and dress-appropriateness on 10 characteristics. The hypotheses predict interactions among facial attractiveness, dress-appropriateness, and gender of the stimuli, as well as participant gender.

**ShanKara B. Johnson**, *Computer Science*, “The Design and Evaluation of Persuasive Technology to Change Keyboard Activity”

Persuasive technology is a branch of computer science that deals with the design and evaluation of technology that is intended to persuade users to change attitudes and/or behaviors. Repetitive Strain Injury (RSI) refers to a set of injuries that may result from repetitive actions of specific joints and muscle groups. The goal of this project is to design, implement, and evaluate a program that uses persuasive technology to encourage users to reduce their risk of developing RSI caused by typing.

**Zachary A. Keller**, *Computer Science*, “Better Answers Faster: Combining Parallelization and Genetic Algorithms”

Genetic algorithms are used to solve problems with a wide array of possible solutions, like the traveling salesman problem. Our research looked into optimizing the efficiency of the genetic algorithm by combining it with parallelization, which divides up a task among multiple CPUs. We implemented three genetic algorithms of varying degrees of parallelization and ran two different problems through the algorithms and compared their results. Our goal was to prove that by parallelizing genetic algorithms, we could find better answers to the problems in a shorter time frame.

**Tanmoy Das Lala**, *Biology*, “Cell Cycle Activity in Regenerating Hearts”

The regeneration of the zebrafish heart after apical resection is supported by the proliferation of de-differentiated cardiac myocytes (CM) and/or de novo differentiation progenitor cells. We have developed a model of heart regeneration in response to cautery injury in Giant danio (GD) to ascertain whether regeneration depends on proliferation of adult CMs. At 14 days following injury, PCNA immunoreactivity shows robust cell proliferation in the compact heart and adjacent trabeculae. 5-EDU incorporation in MEF-positive cells suggests cell cycle re-entry in CMs. Autoradiography in plastic sections following pulse-labeling with tritiated-thymidine shows increase incorporation in 1) epicardial cells and in granulation tissue at 7 days, 2) in the reconstituted compact heart, and newly formed adjacent trabeculae at 14 days. Partially differentiated CMs, including mitotic and binucleated CMs were observed by transmission electron microscopy at 14 days. Whether these cells emanate from previously de-differentiated CMs or differentiating progenitor cells is not clear. We conclude that the regeneration of the GD heart is in part dependent on the cell cycle activities of partially differentiated CMs.



**Roy R. Leaf**, *History*, “Antimodernism and the American Sportsman: Protest, Accommodation, and Hegemony in the Late 19th Century”

An examination of the sportsmen’s movement and ideology of the late 19<sup>th</sup> century reveals an antimodern critique of the United States’ over-civilization, rationalization, and market forces. This critique served as a tool of social control devoted to securing influence over the American bourgeoisie. This paper examines two of the most prominent manifestations of antimodernism in the code of the sportsman: physical masculinity and anti-economic rationalization. These two characteristics illustrate how the antimodern sportsman’s critique was absorbed by modern culture and, instead of revitalizing an old way of life, served to smooth the transition to a new modern existence.

**Tianjiao (Candy) Liu**, *History*, “Robert Winter and the New Culture Movement, 1920s - 1940s”

Robert Winter, Wabash class of 1909, came to China in the aftermath of the New Culture movement. Winter envisioned his work in China as an effort to save the nation by amending traditional Chinese values with new ideas from the West. His companions in China were prominent intellectuals, and his students became national cultural leaders. Winter, whose deeds were so meaningful yet whose name is unknown, remained in the field of education for over 60 years. His experience would challenge the social significance of the New Culture movement as he constantly practiced and carried forward its ideology throughout his life.

**Alex S. Lopatka**, *Geosciences*, “Suitability for Carbon Sequestration Coupled Brine Extraction in the Glen Canyon Group, USA”

In water-constrained regions, the economic feasibility of industrial development – including the application of carbon dioxide capture and sequestration (CCS) technology as an emissions mitigation tool – may be limited due to the volumes of water required. In some cases, it may be possible to address emissions mitigation and water resource needs by injecting CO<sub>2</sub> into a deep saline formation (DSF) while extracting groundwater with high total dissolved solid (TDS) concentrations inappropriate for drinking and agriculture. However, constituent ion and TDS concentrations heavily influence how extracted brine can be used. The purpose of this research is to characterize TDS and ion concentrations for a potential storage formation in a water-constrained region of the U.S. to examine its suitability for CCS-coupled brine extraction. Studies providing legal, regulatory, and siting assessment will be needed to support pilot studies testing the commercial feasibility of this approach. However, results from this study and others suggest CCS-coupled brine extraction could provide an unconventional source of economically useful water (while reducing CO<sub>2</sub> emissions to the atmosphere) in water-constrained regions, including the American west. Further, this preliminary analysis suggests similar basins in this region may also have potential for this application.

**Anthony W. Meek**, *Education Studies*, “Is there a connection between coaching pedagogy and the gender of the athletes?”

An analysis of coaching methods used with male and female athletes in an attempt to determine whether gender based pedagogies exist. The sample is based on ‘coaching episodes’ observed within Indiana high and junior high schools with both male and female divisions. The project challenges the literature assumption that coaching knowledge is osmotic, or inferred through athletic experience and interaction with athletes and other coaches. The research challenges assumptions made by the standardization movement and some feminist scholars by suggesting differences should exist between pedagogies utilized when coaching males and females.

**Katherine S. Morrison**, *Kinesiology*, “The Effect of Detraining on Resting Metabolic Rate in Female Collegiate Swimmers”

My project examines resting metabolic rate and the possible changes that could occur with detraining or a decrease/cease in activity. I hypothesized that resting metabolic rate would not change with detraining however there would be a difference in resting metabolic rate when comparing taper and post-season results. To test my hypothesis, resting metabolic rate was measured on four different occasions two weeks apart, a baseline before taper began, taper, 2 weeks post-season and 4-weeks post season. My study is important because it examines how athletic training and detraining can change resting metabolic rate thus impacting body mass and regulation of energy balance.

**Joy H. Mulhollan**, *Musical Arts*, “Music and Revolution: *Nueva canción* and Other Latin American Musical Reactions Against American Imperialism”

In Latin America, musicians used their art not only as self-expression, but also as a means of communicating important political ideologies, often with messages against US involvement in and domination of the economic and governmental spheres of each country. The *nueva canción* movement in Chile presents an example of music that effectively inspired revolution. These songs played a significant role in the formation of cultural sentiments towards political actions and in the ideological creations of revolutionary parties.

**Case M. Nafziger**, *Music Performance (voice)*; accompanied by Amanda Hopson, piano, “Sibillar gli angui d’Aletto” from *Rinaldo* – composed by George Frederic Handel (1685-1759)

Act I. Argante, the Saracen King of Jerusalem, emerges from the city gates. He faces an oncoming siege by the Christian crusaders, and he has decided to enlist the help of the sorceress Armida to ward them off.

Translation: They hiss, the serpents of Alecto, / and she barks, the voracious Scylla.  
I seem to hear them all around me. / An evil poison snakes within my breast,  
but, as of yet, the feeble spark of fear / does not torment me.

**Jared P. Norman**, *Music Education*, “Enriching Lives: My Student Teaching Experience”

For four years, I have worked toward this final point in my music education career. Working at Hamilton Southeastern High School in Fishers, Indiana, with four choirs and two piano classes, I gained much-needed real-world experience. The students that I taught reignited my passion for music as we worked throughout the semester to learn repertoire, clean choreography, and grow as musicians. While I was technically their teacher, I couldn’t help but learn about my own teaching style and mature as a person.

**Joan C. Pankratz**, *English (writing)*, “Autobiography”

In this short play set in small-town Wyoming, a missing persons detective interrogates a local butcher on her family’s involvement with the kidnapping of a teenage boy. The butcher’s rare gift of superior autobiographical memory, the ability to remember every day of her life, defies the detective’s skepticism and becomes a boon to the case until they stumble upon a hole in her memory---a day where she can literally remember nothing.

**Lisa A. Poole**, *Asian Studies*, “Comfort Women: An Issue Unresolved”

During Japan’s colonization of the Korean peninsula prior to and during the World War II era, Korean women were mobilized to the war fronts as a separate female army forced into sexual slavery for the Japanese forces. Not much is known about the specifics, but it is clear that thousands of Korean women were sent into China and Russia with the Japanese Imperial Army, sometimes under forced violence or false promises of work. Still today the Korean “comfort women” issue remains unresolved between the two countries. With the divided public both in Japan and Korea, it does not seem likely a solution will be reached before the problem fades into history.

**Paromita Sen**, *Political Science*, “When Women Rule the World: Tracing Women’s Path to Leadership in Patriarchal South Asia”

I hypothesize that traditional gendered leadership theory is unable to explain the phenomena of multiple women leaders being elected into office in Asia. To truly understand how women come to power in such patriarchal structures, one must take into account factors such as dynasty and class, both of which have a positive significant correlation with a woman’s ability to run for public office. Assassinations of male leaders also create exceptional political situations where a woman may adopt the cause of the martyred leader. Gender impacts them as candidates differently than it impacts them as leaders. Women candidates and leaders must both be the epitome of a good woman – moral, uncorrupt, democratic, an agent of change and a representative of the people – while simultaneously being militaristic and protecting their own political sovereignty and that of their nations. They rarely choose to or are even able to promote the rights of women and improve gender equality within their societies. Nevertheless, they still serve as pioneers for future candidates who may wish to include women in their agendas and thereby attempt to bridge the gender gap in these patriarchal countries.

**Kathryn A. Strader, *Education Studies*, “What does service teach?”**

A content analysis of journals written by service participants on a WTIS trip to El Salvador in January 2012. An explicit assumption is that some of this learning is as a result of *contradiction* experienced while doing the actual service, *contradiction* that emerges from working with communities different from our own. What ideologies shape and inform our understanding of the ‘other’ being ‘served’? Do we assume particular judgments/‘gazes’, because of our culture capital? And do practices and pedagogies of service learning, based on authoritarian models, “actually reinforce asymmetries of power and privilege” rather than remove them.” (McLaren, 2007).

**Mitchell A. Strobl, *Biology*, “Whitetail Deer Movement Patterns in the DePauw Nature Park”**

The goal of this project was to determine if deer movement patterns were affected by time of day, moon phase, and human scent. 10 cameras were placed around the Nature Park, half of them were "unscented", meaning they were put up using scent killing spray, scent containing clothing; minimizing human scent left behind. The other half were "scented", meaning they were put up with no special equipment and human scent was left behind. Pictures were also analyzed for differences in movement based on moon phase/ time of day. Did any of these factors play a role in overall movement patterns? Check out our results for the answer.

**Aishwarya Subbaraman, *Economics and Management*, “Extraction Politics: An Economic Analysis of Rare Earth Elements”**

Rare earth elements have critical applications in high-technology industries such as defense and clean energy. China holds more than 90% of the current production capacity for these elements and in September, 2010 announced plans to cut its exports of the elements by 72%. Using Microsoft Excel, this paper analyzes China’s economically optimal extraction path given such factors as mineral stocks, cost of extraction, price and interest rate. It also discusses the implications for changing China’s objective from one that seeks purely to maximize the monetary value of its resources to one that considers its broader political interests.

**Ashwin A. Upasani, *Physics and Astronomy*, “Studying Unusual Magnetic Behavior in  $Ce_3Co_4Sn_{13}$  using Neutron Scattering”**

Heavy fermion systems are solid state compounds that show unusual behavior at extremely low temperatures. This project investigated neutron diffraction under changing magnetic fields at temperatures from 0.033 to 1.4 Kelvin. Results were obtained for three different orientations of the  $Ce_3Co_4Sn_{13}$  crystal. Some of the results were unexpected.

**Kelly R. Weber, *Education Studies*, “What does an analysis of curriculum reveal about the education provided in juvenile detention centers?”**

A content analysis of lesson plans, texts and state guidelines used in juvenile detention centers. One premise of this research is that the formation of a productive citizen requires adequate education. In a penal system learning spaces assume critical value to the moral and cognitive development of children. Are incarcerated youth given the opportunity to possess the skills needed for rehabilitation, and to contribute to the common good? Legally, does the curriculum provided in juvenile detention centers meet the educational standard mandated by federal policies? The juvenile detention centers include those located in Indiana, Washington; Mississippi, and Arizona.

**Rachel G. Wheaton, *Kinesiology*, “Maximal Aerobic Capacity While Running and Swimming in Collegiate Swimmers”**

Maximal aerobic capacity is used as a marker of training status. It may be specific to the type of exercise, i.e. running vs. swimming. In competitive swimmers, results are conflicting. I hypothesized that the maximal aerobic capacity of competitive swimmers would not be different while running compared to swimming. Maximal aerobic capacity was measured in a group of competitive swimmers during a swim test in the pool and while running on a treadmill. Potentially, maximal aerobic capacity measured on the treadmill may be used as a marker of training status in swimmers.

**Jake T. Willingham, *Geosciences*, “Crustal Extension and Volcanism Interleaved with Jurassic Shortening in the Yanshan Fold-Thrust Belt, North China”**

The North China block is a world-class example of a reactivated Archean craton. The Yanshan fold-thrust belt records a complex Mesozoic history of repeated extensional and contractile events associated with this reactivation. At least three tectonic events affected the central Yanshan during Jurassic time: 1) Early-Middle Jurassic (~159-164 Ma) south-directed thrusting, 2) Middle-Late Jurassic (152-160 Ma) extension and volcanism, and 3) Late Jurassic-Cretaceous (>135 Ma) bivergent thrusting. These events preceded a phase of mid-Cretaceous extension and magmatism that affected all of eastern Asia.

**Jennifer A. Wilson, *Music Performance (voice)*; accompanied by Tony Weinstein, piano, “Deh Vieni Non Tardar” from *La Nozze di Figaro* – composed by W. A. Mozart (1756-1791)**

Susanna and her fiancée Figaro serve the Count and his wife. The count wishes to have Susanna for his own, but the Countess and Susanna have a plan to catch the Count red handed. In this aria in Act 4, Susanna (dressed as the Countess) sings of love with the knowledge that Figaro is listening nearby.

Translation: At last the moment has come / That I will enjoy without worry  
In the arms of my beloved / Timid worries flee from my heart  
Do not come and disturb my delight! / Oh this seems like the fire of love  
The beauty of this place, the land and the heaven meet, / As the night furthers my designs!  
Ah come, do not delay, oh beautiful joy. / Come where love calls you to enjoyment  
Until the night's face no longer shines in the sky / Until the air is even dark, and the world silent.  
Here murmurs the brook, here the light plays, / That restores the heart with sweet whispers,  
Here laughs the little flowers and the grass is fresh, / All are lured to pleasures of love.  
Come, my dear, between these hidden plants / I want to crown you with roses.

**Lichen Xu, *Psychology*, “Cultural Differences in Coping Processes: The Relationship of Discriminative Facility and Need for Closure in European American and East Asian University Students”**

I investigated whether there is an independent versus collectivist cultural difference in the ability to detect situational cues and adaptively cope, and whether cognitive motivation for closure is a good predictor of this proposed difference. Participants were primed to a cultural framework and I measured whether they sought social support under low vs. high task difficulty.