Students: Show us your favorite moments from Scholars Week! Tweet pics with the hashtag #URSA14. URSA will award a prize for the best picture!

#URSA14
Dear Colleagues:

Please allow me to be the first to welcome you to URSA Scholars Week 2014. It’s easy to see that Baylor Research is Making a Difference both across the world and in the lives of our undergraduates.

As we pause to acknowledge and appreciate the achievements of the students and faculty represented in this seventh annual Scholars Week celebration, I encourage you to take the time to embrace all the scholarship on display. The quality of the presentations demonstrates the monumental commitment provided by Baylor faculty as well as the quality of student Baylor attracts to campus.

I would also ask that you thank your faculty colleagues and the dedicated Baylor students who have worked so hard to bring URSA to where it is today. Their unwavering enthusiasm promises a bright future for the undergraduate research experience at Baylor!

Truell W. Hyde, Ph.D.
Vice Provost for Research
Scholars Week 2014
Welcome to
Undergraduate Research and Scholarly Achievement
Scholars Week

Letter from Dr. Truell Hyde . . . . . . . . . . . . . . . . . Page 1

Platform Presentations in Bill Daniel Student Center
Monday, March 31, 2014 (2:00 pm) . . . . . Pages 4-10

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Sam Ballard</td>
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Monday, March 31, 2014 (3:30 pm) . . . . . Pages 11-16

<table>
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<td>Jessica Abbey</td>
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<td>Jacquelyn Clark</td>
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<td>Scott Sykes</td>
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**Tuesday, April 1, 2014 (2:00 pm)**  . . . . . . . Pages 17-21

<table>
<thead>
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**Tuesday, April 1, 2014 (3:30 pm)**  . . . . . . . Pages 22-26

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</table>

**Poster Presentations in Baylor Sciences Building**

**Wednesday and Thursday, April 2-3.**  . . . . . . . Pages 27-41

**Hankamer School of Business**

**Business Fellows Sessions in Cashion 409**

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<tr>
<th>Date</th>
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<tbody>
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<td>Monday, March 31</td>
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<td>Wednesday, April 2, 2014</td>
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<td>Thursday, April 3, 2014</td>
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<td>Future Undergraduate Research Events</td>
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<td>Art Student Exhibition</td>
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PLATFORM PRESENTATIONS
Monday, March 31, 2014
Bill Daniel Student Center
Fentress Room

2:00
Laura McMillan
Faculty Mentor: Dr. Heidi J. Hornik
Historiography of Francesco Salviati
[Art]

Kaleia Marsden
Faculty Mentor: Dr. Heidi J. Hornik
Baylor’s Architecture in Regards to Classical Greek and Roman Architecture
[Art]

Amy Welch and Alexander Gardere
Faculty Mentor: Dr. Nathan Elkins
Coins and the Communication of Power in the Reign of Nerva, A.D. 96-98
[Art]
Monday, March 31, 2014
Bill Daniel Student Center
Baines Room

2:00
Cameron Strong
Faculty Mentor: Dr. William Hoy
Death Criteria: What It Takes To Die
[Medical Humanities]

Jacob Maher
Faculty Mentor: Dr. William Hoy
Physician-assisted Dying: A New Model for Current Clinical Application
[Medical Humanities]

Derek Byrne
Faculty Mentor: Janet Norden, MA
Integral Perspectives on Dignity in B. Traven’s “Assembly Line”
[Modern Languages & Cultures]

Emily Edmondson
Faculty Mentor: Dr. Natalie Carnes
"Salvifici Doloris": John Paul II’s Take on Redemptive Suffering
[Religion]
Monday, March 31, 2014
Bill Daniel Student Center
Beckham Room

2:00

Hayden Murphy
Faculty Mentor: Dr. Ivy Hamerly
Means, Motive, and Opportunity: Why Modern Civil Wars Begin & Why They Last So Long
[Political Science]

Alyssa Vannatter
Faculty Mentor: Dr. Ivy Hamerly
State Strength in China
[Political Science]

William Gregory
Faculty Mentor: Dr. Lizbeth Souza-Fuertes
South American Consumptive Wildlife Tourism
[Modern Languages & Cultures]
Monday, March 31, 2014
Bill Daniel Student Center
White Room

2:00

Kurt Terry
Faculty Mentor: Dr. Bracy Hill
Dialogue of Reformation: Luther, Henry VIII, More, and Erasmus
[History]

Katherine Novak
Faculty Mentor: Dr. Bracy Hill
Wyatt’s Rebellion under Mary I of England
[History]

Madison Cloud
Faculty Mentor: Dr. Bracy Hill
From Protestant Princess to Holy Heroine: Elizabethan Propaganda in the Arts
[History]
Monday, March 31, 2014
Bill Daniel Student Center
Cowden Room

2:00

Eric Cline
Faculty Mentor: Dr. Karol Hardin
Effectiveness of Spanish Language and Culture Education on Healthcare Providers
[Modern Language & Cultures]

Dustin Lyles
Faculty Mentor: Dr. Frieda Blackwell
Feminist Ideals in the Short Stories of Emilia Pardo Bazán
[Modern Language & Cultures]

Karin Gibson
Faculty Mentor: Dr. Frieda Blackwell
The Function of Children in Galdós’ “La de Bringas”
[Modern Language & Cultures]
Monday, March 31, 2014
Bill Daniel Student Center
Houston Room

2:00

Haley Hamlin
Faculty Mentor: Dr. Julie King
Killer Whales (Orcinus orca) in Captivity: The Legalities and Ethics
(Environmental Science)

Robert Taff
Faculty Mentor: Dr. Julie King
Impacts of Bycatch Regulations on Leatherback Sea Turtles
(Environmental Science)

Sam Ballard
Faculty Mentor: Dr. Sascha Usenko and Dr. Julie King
The Red River Rivalry: Recent Disputes and Solutions for the Future
(Environmental Science)
Monday, March 31, 2014
Bill Daniel Student Center
Fentress Room

3:30

Jackson Perry
Faculty Mentor: Dr. Nathan Elkins
Dionysian and Eucharistic Imagery in “Santa Costanza”
[Art]

Kevin Burns
Faculty Mentor: Dr. David Jeffery
Judaism’s Use of Dionysiac Iconography: A Study of the Dura Europos Synagogue
[Honors College - University Scholars]

Kaley Branstetter and Jonathan McElroy
Faculty Mentor: Dr. William Weaver and Dr. Greg Hamerly
Annotating Critical Soliloquies in the Browning Letters
[Honors College - Great Texts]
[Computer Science]

Jonathan McElroy and Kaley Branstetter
Faculty Mentor: Dr. William Weaver and Dr. Greg Hamerly
Supervised Classification of Genre in the Browning Letters
[Honors College - Great Texts]
[Computer Science]
<table>
<thead>
<tr>
<th>Time</th>
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<th>Faculty Mentor</th>
<th>Title</th>
<th>Category</th>
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<tbody>
<tr>
<td>3:30</td>
<td>Christine Stanulonis</td>
<td>Dr. Ralph Wood</td>
<td>The Tree of Knowledge and the Tree of Life</td>
<td>Religion</td>
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<td>Connor Warme</td>
<td>Dr. Lidija Novakovic</td>
<td>Christotelic Interpretation of Isaiah 7:14 in Matthew 1:22-23</td>
<td>Religion</td>
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<td>Katherine Ellis</td>
<td>Dr. William Bellinger</td>
<td>The Divine Speeches and Job</td>
<td>Religion</td>
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<td>Jessie Carver</td>
<td>Dr. David Jeffery</td>
<td>A Musical Interpretation of Dante Alighieri’s “Divina Commedia”</td>
<td>Honors College</td>
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</tbody>
</table>
Monday, March 31, 2014
Bill Daniel Student Center
Beckham Room

3:30

Chance Coppedge
Faculty Mentor: Dr. Scott Spinks and Holly Joyner, MS
Mercosur: Protectionism and Quality of Life in Argentina and Brazil
[Modern Languages & Cultures]
[Global Community Living - Learning Center]

Virginia Gallardo
Faculty Mentor: Dr. Scott Spinks and Holly Joyner, MS
Poverty in South Africa: Why Race is Still a Factor After the Apartheid
[Modern Languages & Cultures]
[Global Community Living - Learning Center]

Scott Sykes
Faculty Mentor: Dr. Scott Spinks and Holly Joyner, MS
The Efficacy and Evolution of Microfinance
[Modern Languages & Cultures]
[Global Community Living - Learning Center]

Sarah Van Dyke
Faculty Mentor: Dr. Van Pham
Prediction Model for Baylor Admissions
[Economics - School of Business]
Monday, March 31, 2014
Bill Daniel Student Center
White Room

3:30
Cimarron Parker
Faculty Mentor: Dr. Theresa Varney Kennedy
The Treatment of Women in “Tristan and Iseult”
[Modern Languages & Cultures]

Tiffany Auber
Faculty Mentor: Dr. Cristian Bratu
Rousseau: Another Interpretation
[Modern Languages & Cultures]

Katherine Walker
Faculty Mentor: Dr. Richard Duran
The Existentialist Basis Underlying Simone de Beauvoir’s “The Second Sex”
[Modern Languages & Cultures]

Da’Monica Hunter
Faculty Mentor: Dr. Holly Collins and Dr. Richard Duran
La Francophonie Désintègre L’Identité Culturelle
[Modern Languages & Cultures]
<table>
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<tr>
<th>Time</th>
<th>Name</th>
<th>Faculty Mentor: Dr. Paul Larson</th>
<th>Title</th>
<th>Department</th>
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<tr>
<td>3:30</td>
<td>Katherine Nick</td>
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<td>Pious Charity in the Fifth Miracle of our Lady, Gonzalo de Berceo: El pobre caritativo</td>
<td>[Modern Languages &amp; Cultures]</td>
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<td>Kristin Smart</td>
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<td>The Portrayal of Mary in Berceo’s “La Casulla de San Ildelfonso”</td>
<td>[Modern Languages &amp; Cultures]</td>
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<td>Jessica Abbey</td>
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<td>A Question of Poverty: Juan Rulfo’s “Es que somos muy pobres”</td>
<td>[Modern Languages &amp; Cultures]</td>
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<td>Dillon Camp</td>
<td></td>
<td>The Question of Servant Leadership in Exemplo LI of “El Conde Lucanor”</td>
<td>[Modern Languages &amp; Cultures]</td>
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</tbody>
</table>
Monday, March 31, 2014
Bill Daniel Student Center
Houston Room

3:30 Cameron Brewer
Faculty Mentor: Dr. Garrett Cook
An Ethnographic Encounter with Wicca in the UK
[Anthropology]

Natasha Jordan and Jacquelyn Clark
Faculty Mentor: Carol Macaulay-Jameson, MA
Bringing Down the House: Waco Urban Renewal
[Anthropology]

Jesus Sotelo
Faculty Mentor: Dr. Garrett Cook
Ethnography in the Clinic: The Experiential Approach among Men with Diabetes
[Anthropology]

Ellie Lastrapes, Morgan Raley and Kelli Bassett
Faculty Mentor: Dr. Garrett Cook
Some Implications of Ethnomedical Patterns in a Mayan Town
[Anthropology]
Tuesday, April 1, 2014
Bill Daniel Student Center
Fentress Room

2:00

Emily Johnson
Faculty Mentor: Dr. Andrew Meyer
Active Catharsis in the Great Brazos Relay
[Health, Human Performance & Recreation]

Melissa Pforr
Faculty Mentor: Dr. Matthea Hungerford
Cyclops Lesion in a Collegiate Football Player Following ACL Reconstruction
[Health, Human Performance & Recreation]

Abigail Pinto and Chelsea Goodman
Faculty Mentor: Dr. Shelby Garner
Identification of Student Nurses’ Perceptions of Nursing in Bengaluru India: A Photovoice Study
[Louise Herrington School of Nursing]
Tuesday, April 1, 2014
Bill Daniel Student Center
Baines Room

2:00

Dustin Buller
Faculty Mentor: Dr. Kevin Shuford
Effects of Ethanol on Ion Transport in the NavMs Channel
Via Molecular Dynamics
[Chemistry & Biochemistry]

Rachel Petersen, Zacharie J. Seifert
and Jeremy Quintana
Faculty Mentor: Dr. Robert R. Kane
Synthesis of Sulfur and Amino 8-Substituted Adenine Derivatives as TLR7 Agonists
[Chemistry & Biochemistry]

Richa Manglorkar
Faculty Mentor: Dr. Myeongwoo Lee
The Effects of the egl-13 Transcription Factor is Linked to pat-3 β Integrin
[Biology]
Hayley Sharma  
Faculty Mentor: Dr. Frieda Blackwell  
Moratín’s Solution for Spanish Theater Reform in the 18th Century  
[Modern Languages & Cultures]  

Ellen Scott  
Faculty Mentor: Dr. Frieda Blackwell  
Censorship and Repression in Jardiel Poncela’s “Eloísa está debajo de un almendro”  
[Modern Languages & Cultures]  

April Fleming  
Faculty Mentor: Dr. Frieda Blackwell  
Political Pessimism in Spanish Literature: Mariano Jose de Larra’s Essays  
[Modern Languages & Cultures]
Tuesday, April 1, 2014
Bill Daniel Student Center
White Room

2:00

Emily Peirce, Ellen Vitercik and Joseph DiNatale III
Faculty Mentor: Dr. Casey Mann and Dr. Lance Littlejohn
Unilateral and Equitransitive Tilings by Squares of Four Sizes
[Mathematics]

Thomas Gibson
Faculty Mentor: Dr. Ron Morgan and Dr. Mark Embree
Variations of The Arnoldi Method for Computing Multiple Eigenvalues
[Mathematics]

Vy Nguyen
Faculty Mentor: Dr. Johnny L. Henderson
Smoothness of Solutions with Respect to Boundary Value Conditions for ODE
[Mathematics]
Tuesday, April 1, 2014
Bill Daniel Student Center
Cowden Room

2:00

Swathi Shankar
Faculty Mentor: Dr. Sarah Ford
The Legal, Racial and Moral Conflicts in Mark Twain’s “Pudd’nhead Wilson”
[English]

Rebecca Young
Faculty Mentor: Marie Smart, MA
Mystical Spirituality in American Abstract Expressionism
[English]

Amanda Mintz
Faculty Mentor: Dr. Clay Butler
Who’s got the power? Conversational Dominance in Same-gender Discourse
[English]
Tuesday, April 1, 2014
Bill Daniel Student Center
Fentress Room

3:30

Taylor Roth
Faculty Mentor: Dr. Christine Limbers
How Coping Styles Influence Emotional Eating Habits in a University Population
[Psychology & Neuroscience]

Linda Nguyen
Faculty Mentor: Dr. Wade Rowatt
Correlates of Implicit and Explicit Attitudes Toward Interracial Attraction
[Psychology & Neuroscience]

Thomas Elston
Faculty Mentor: Dr. Joaquin N. Lugo
Aniracetam and Behavior
[Psychology & Neuroscience]

Vivian Nguyen and Nicole Abraham Downing
Faculty Mentor: Dr. L. Joseph Achor
“Survival of the Fittest”: Selecting the Right Fit in Electronic Databases for a Given Search
[Psychology & Neuroscience]
Tuesday, April 1, 2014
Bill Daniel Student Center
Baines Room

3:45

Meredith Rosenthal
Faculty Mentor: Dr. Tamarah Adair
Variation in Response to Blue Light among *Staphylococcus aureus* Isolates
[Biology]

Bayless Drum
Faculty Mentor: Dr. Tamarah Adair
RNA-seq Reveals Changes in *S. aureus* transcriptome after Blue Light Illumination
[Biology]
Tuesday, April 1, 2014
Bill Daniel Student Center
Beckham Room

3:30

Paul Schlaudraff
Faculty Mentor: Dr. Adrienne Harris
Dostoevsky’s View of the Russian Soul and Its Impact on the Russian Question
[Modern Languages & Cultures]

Keith Robertson
Faculty Mentor: Dr. Adrienne Harris
Improving Understanding of Russian Grammar through Reading
[Modern Languages & Cultures]

Christopher Blewett
Faculty Mentor: Dr. Adrienne Harris
E’ryday Repin
[Modern Languages & Cultures]

Michael Webbon
Faculty Mentor: Dr. Adrienne Harris
Architected Chaos: The Smorgasbord Dialectics of Nikolai Gogol’s “Dead Souls”
[Modern Languages & Cultures]
<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation Title</th>
<th>Faculty Mentor(s)</th>
<th>Abstract</th>
<th>Department</th>
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<tbody>
<tr>
<td>3:30</td>
<td>Lauren Linthicum</td>
<td>Carol Macaulay-Jameson, MA</td>
<td>Overview of Baylor University’s Second Field Season at Barnhill Rockshelter</td>
<td>Anthropology</td>
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<td><strong>Molly Hall-Harvey</strong></td>
<td>Dr. Leslie Busch, Carol Macaulay-Jameson, MA</td>
<td>Macrobotanical Analysis of Carbonized Plant Remains from Barnhill Rockshelter</td>
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<td><strong>Michelle Cruz and Rachel Kim</strong></td>
<td>Carol Macaulay-Jameson, MA</td>
<td>An Analysis of the Faunal Remains from Barnhill Rockshelter #3 [41CV1646]</td>
<td>Anthropology</td>
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<td><strong>Rebecca Klein</strong></td>
<td>Dr. Linda Perry, Foundation for Archaeobotanical Research in Microfossils, Carol Macaulay-Jameson, MA</td>
<td>Metates and Starch Grains: Evidence of Maize and Seed Processing in Coryell Co.</td>
<td>Anthropology</td>
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</tbody>
</table>
Tuesday, April 1, 2014
Bill Daniel Student Center
Cowden Room

3:30

Parmida Schahhosseini
Faculty Mentor: Carol Perry, MA
Center of International Education Magazine
[Journalism, Public Relations, & New Media]

Courtney Carter, Hailey Cowan and Alex Alford
Faculty Mentor: Carol Perry, MA
Baylor FCS Fashion Merchandising & Design Magazine
[Journalism, Public Relations, & New Media]

Melissa Lasater, Alexa Christian Hoisager and Collin Smith
Faculty Mentor: Dr. Sara Stone
Journalism, Public Relations and New Media Online Magazine
[Journalism, Public Relations, & New Media]
POSTER PRESENTATIONS
Poster Presentations
April 2 and 3, 2014
12:30 pm – 1:30 pm
Baylor Sciences Building

Board 1  Kaitlyn Drenckpohl
Faculty Mentor: Dr. Becky Spencer
Addressing the Health Needs of Somali Refugees
[Louise Herrington Nursing School]

Board 2  Amanda Holub
Faculty Mentor: Dr. Becky Spencer
The Psychological Effects of Pediculosis in School Children and their Caregivers
[Louise Herrington Nursing School]

Board 3  Tate Cooper
Faculty Mentor: Dr. Becky Spencer
Prevention of Intraventricular Hemorrhage in Premature Infants
[Louise Herrington Nursing School]

Board 4  Audrey Sisson
Faculty Mentor: Dr. Becky Spencer
Open Visitation in Intensive Care Units
[Louise Herrington Nursing School]

Board 5  Kelli Davis
Faculty Mentor: Dr. Becky Spencer
Supportive Care of the Family: End of Life Care through the Bereavement Process
[Louise Herrington Nursing School]

Board 6  Charlie Ann Anderson
Faculty Mentor: Dr. Becky Spencer
The Nurse’s Role in Helping Patients and Families Cope with Fetal Demise
[Louise Herrington Nursing School]
Board 7  Brooke Roy  
**Faculty Mentor: Dr. Cathy Miller**  
Recognizing Chiari Malformation Symptoms During Initial Nursing Assessment  
[Louise Herrington Nursing School]

Board 8  Regan Nicewander  
**Faculty Mentor: Dr. Cathy Miller**  
The Impact of Stress on Student Nurses  
[Louise Herrington Nursing School]

Board 9  Shannon Marek  
**Faculty Mentor: Dr. Andrew Gallucci**  
Unilateral Stress Fracture at the L4 Vertebra in a Collegiate Tennis Player  
[Health, Human Performance & Recreation]

Board 10  Katherine Barnes  
**Faculty Mentor: Dr. Andrew Gallucci**  
Left Shoulder Glenohumeral Instability and Anterior Inferior Labral Tear  
[Health, Human Performance & Recreation]

Board 11  Kelli Gunter  
**Faculty Mentor: Dr. Andrew Gallucci**  
Grade III Chondromalacia in a Recreational Power Lifter  
[Health, Human Performance & Recreation]

Board 12  Kyle Wolff  
**Faculty Mentor: Dr. Andrew Gallucci**  
Non-Contact Tibia-Fibula Fracture In the Collegiate Football Player  
[Health, Human Performance & Recreation]

Board 13  Stephanie Post  
**Faculty Mentor: Dr. Matthea Hungerford**  
Acetabular Labral Tear in a Collegiate Baseball Pitcher: A Case Study  
[Health, Human Performance & Recreation]
Board 14  Briana Trevino  
**Faculty Mentor: Dr. Donna Burnett**  
Why College Students Gain Weight:  
A Qualitative Investigation  
[Family and Consumer Sciences]

Board 15  Katherine Hooker, Pamela K. Kostka and Coowe M. Walker  
**Faculty Mentor: Dr. Ryan King and Dr. William Hockaday**  
NMR Reveals Effects of Alder Cover on Leaf Litter Breakdown in Alaskan Streams  
[Biology]  
[Geology]

Board 16  Jemima McCluskey, Moncie V. Wright and Leanne F. Baker  
**Faculty Mentor: Dr. Ryan S. King and Dr. Cole Matson**  
Interactions between Titanium Dioxide Nanoparticles and Snail Grazing  
[Biology]  
[Environmental Science]

Board 17  Caitlyn Brashears and Ming Chen  
**Faculty Mentor: Dr. Patrick Danley**  
Post Zygotic Isolation in Two Closely Related Lake Malawi Cichlid Species  
[Biology]

Board 18  Alyssa Pantle  
**Faculty Mentor: Dr. Richard Duhrkopf**  
Oviposition of Container-Breeding Mosquitoes Associated with ORGIN 3-6-9 Water  
[Biology]

Board 19  Richa Manglorkar and Bryan Brautigam  
**Faculty Mentor: Dr. Myeongwoo Lee and Dr. Lyn Jakeman[NIH/NINDS, Repair and Plasticity]**  
Characterization of CD200 Expression in the Mouse Spinal Cord Following Injury  
[Biology]
Board 20  David Crabtree  
Faculty Mentor: Dr. Sanghoon Kang  
The Effect of Magnetic Fields on Human Skin Microbiota  
[Biology]  

Board 21  Nick Norris, Annie Janise and Molly Kudela  
Faculty Mentor: Dr. Erika Abel, Dr. Crystal Usenko and Dr. Erica D. Bruce  
Investigation of the Role of Oxidative Stress in PBDE-induced Toxicity  
[Biology]  
[Environmental Science]  

Board 22  Gerardo Martinez, Aaron Hopkins, Lana Joudeh, Molly Kudela and Nick Norris  
Faculty Mentor: Dr. Crystal Usenko, Dr. Erika L. Abel and Dr. Erica D. Bruce  
Comparative Toxicity of Brominated Flame Retardants in Zebrafish  
[Biology]  
[Environmental Science]  

Board 23  Stephanie Ortiz and Jonathan Tijerina  
Faculty Mentor: Dr. Crystal Usenko, Dr. Erika Abel and Dr. Erica D. Bruce  
Effects of Brominated Flame Retardants on Neurological Development in Zebrafish  
[Biology]  
[Environmental Science]  

Board 24  Catherine Howard  
Faculty Mentor: Dr. Bill Neilson  
Fibroblast-Endothelial Cell Interaction in the Heart  
[Honors College]  

Board 25  Saira Sanghera, Bindiya Patel and Elizabeth Andersen  
Faculty Mentor: Dr. Jacquelyn Duke and Dr. Diane Hartman  
Escaping the ESKAPE  
[Biology]
Board 26  Shelby Garcia, Michael Jacobs, Thuc Pham and Ali Staples
Faculty Mentor: Dr. Diane Hartman and Dr. Jacquelyn Duke
Investigating Soil Microbes for Antibiotics
[Biology]

Board 27  Shelby Armstrong, Sam Marshall and Shanze Zar
Faculty Mentor: Dr. Diane Hartman and Dr. Jacquelyn Duke
The Unearthing of New Antibiotics Produced by Soil Microbes
[Biology]

Board 28  Ohm Pandya, Jesse McNicoll and Prisca Pungwe
Faculty Mentor: Dr. Diane Hartman and Dr. Jacquelyn Duke
Road to Discovering New Antibiotics
[Biology]

Board 29  Sarah Yuen
Faculty Mentor: Dr. Tamarah Adair
Determining the Dosage of 470 nm Light Required to Completely Inhibit S. aureus
[Biology]

Board 30  William Jones and Meredith Rosenthal
Faculty Mentor: Dr. Tamarah Adair
The Effect of Pigmentation and Passaging on Response of S. aureus to Blue Light
[Biology]
Board 31  Kyra Deaton, Filippa G. Bagnasco, 
Zachary S. Brynell, Sydney O. Burke, 
Nitish S. Chimalakonda, Jade A. Connor, 
Kyra N. Curtis, Bethany M. Deaton, 
Abby K. Fahnestock, Christopher R. Fratus, 
Allen W. Karstens, Sai A. Konde, Carter N. Lantz, 
Scott M. Lee, Sierra N. Miller, Josephine E. Minick, 
Katelyn M. Pruett, Victoria A. Rose, 
Amelia M. Schick, Chloe’ A. Sells, 
Jeremy W. Sieker, Daniel S. Thomas, 
Yasmene M. Warrad and Jacqueline F. Wyper 
Faculty Mentor: Dr. Tamarah Adair 
and Dr. Bryan Gibbon 
The Isolation and Analysis of Novel Bacteriophage 
[Biology]

Board 32  William Judge, Purvi Prajapati and Hijab Ahmed 
Faculty Mentor: Dr. Marty Harvill 
Population Growth of Simocephalus serrulatus 
in Lake Waco Wetlands 
[Biology]

Board 33  Nick Obias and Nicole Feragen 
Faculty Mentor: Dr. Marty Harvill 
Examining Pontederia cordata Population Growth 
[Biology]

Board 34  Christopher McElrath, Annam Husain 
and Bryanna Wells 
Faculty Mentor: Dr. Marty Harvill 
Evaluating the Rate of Population Decline of Daphnia 
in Elevated Levels of CuSO₄ 
[Biology]

Board 35  Niloy Shah, Julian Aliche and Bhargavi Karumuri 
Faculty Mentor: Dr. Marty Harvill 
Role of Cu²⁺ and Fe²⁺ Rich Environments 
on Respiratory Output of Chironomus sp. 
[Biology]
Board 36  Ana Garcia, Andrea Tabb and Amy Schatz
Faculty Mentor: Dr. Marty Harvill
Comparison of Unburned and Burned Soil Properties in Waco Wetlands
[Biology]

Board 37  Mahsa Madani, Jacob Moran and Alyssa Pantle
Faculty Mentor: Dr. Marty Harvill
Poverty in Waco, TX: Awareness and Use of Medical Services
[Biology]

Board 38  Sabrina Stinson and David Heath
Faculty Mentor: Dr. Marty Harvill
General Public Knowledge of Vaccinations: An Investigative Study in Central TX
[Biology]

Board 39  Tara Hutchison, Aleia Slack and Emily Knox
Faculty Mentor: Dr. Marty Harvill
General Population’s Knowledge of Food Serving Sizes
[Biology]

Board 40  Tracey Tran, Sozit Yousuf and Garrett Gray
Faculty Mentor: Dr. Marty Harvill
The Evaluation of General Sun Safety Knowledge Amongst Baylor University Students
[Biology]

Board 41  Elizabeth Yuan, Ale Aguado and Johnathan Whatley
Faculty Mentor: Dr. Marty Harvill
Plastic Products: How Much Do You Know?
[Biology]

Board 42  Amanda Berger, Nhat Hoang and Bisola Dada
Faculty Mentor: Dr. Marty Harvill
Investigation of pH on Mosquito Larvae [Aedes sp.] Sustainability
[Biology]
Board 43  Jennifer Misenhimer and Dev Merugumala  
Faculty Mentor: Dr. Marty Harvill  
Sexually Transmitted Disease Awareness Among Baylor Students  
[Biology]

Board 44  Anna Berry, Addie Abohosh and Gigi Jolly  
Faculty Mentor: Dr. Marty Harvill  
Temperature Effects on Growth Rate: *Cambarellus puer* (Crayfish)  
[Biology]

Board 45  Nikhilesh Srinivasan, Raj Patel and Savan Patel  
Faculty Mentor: Dr. Marty Harvill  
Nitrogen and Phosphorus vs. *Typha* Growth Rate at the Lake Waco Wetlands  
[Biology]

Board 46  Sarah Cheney, Ashley Wallace and Brenda Camacho  
Faculty Mentor: Dr. Marty Harvill  
Competition For Phosphorus Between Macroalgae and Microalgae  
[Biology]

Board 47  Amanda Edinger, Brian Engelhardt and Christine Ge  
Faculty Mentor: Dr. Marty Harvill  
June Bug Larvae (*Phyllopaga crinita*) Response to Burned Wetlands Habitat  
[Biology]

Board 48  Elsa Felten, Alexandra Morales and Ehi Agboje  
Faculty Mentor: Dr. Marty Harvill  
*Simocephalus serrulatus*’ Adapted Efficiency of Water Filtration  
[Biology]

Board 49  Cassidy Daw, Erin Keck and Meredith McCarty  
Faculty Mentor: Dr. Marty Harvill  
The Effects of Concentrated pH on Survival and Reproduction Rates: *Simocephalus serrulatus* v. *pulex*  
[Biology]
Board 50  Taylor Dess, Chris Horn and Grace Berry  
**Faculty Mentor: Dr. Marty Harvill**  
Lake Waco Wetlands: Competition between Microscopic Algae and Filamentous Algae  
[Biology]

Board 51  Andrea Bodale, Asha Scott and Marisa Pinton  
**Faculty Mentor: Dr. Marty Harvill**  
Effect of Acetaminophen on *Simocephalus serrulatus* Offspring Survivability  
[Biology]

Board 52  Randall Bennett  
**Faculty Mentor: Dr. Steven Driese**  
Influence of Paleoenvironment on Source-Rock Potential of the Bakken Shale  
[Geology]

Board 53  Hunter Allen  
**Faculty Mentor: Dr. Steven Driese**  
Depositional Environments and Petroleum Resources of the Eagle Ford Shale  
[Geology]

Board 54  Patrick Wagstaff  
**Faculty Mentor: Dr. Steven Driese**  
An Assessment of Steam Assisted Gravity Drainage of Bitumen Reservoirs  
[Geology]

Board 55  Thomas Fletcher  
**Faculty Mentor: Dr. Steven Driese**  
Lower Middle Miocene (MM4) Depositional Setting, Gulf of Mexico  
[Geology]

Board 56  Nick Castillo  
**Faculty Mentor: Dr. Steven Driese, Dr. Bruce Byars and Andrew Worsley**  
Sub-Surface Characterization of an Upper Terrace of the Brazos River Alluvium  
[Geology]  
[Center for Spacial Research]  
[Environmental Science]
Board 57  Charlie Keracik and Todd Longbottom  
Faculty Mentor: Dr. Steven Driese and Dr. William Hockaday  
Assessing Source Rock Potential of the Eagle Ford Shale Using Solid-State NMR  
[Geology]

Board 58  Creighton Meyers  
Faculty Mentor: Dr. William Hockaday  
Sampling Methods for Suspended Particulate Matter: A Study of the Brazos River  
[Geology]

Board 59  Rebecca Davis  
Faculty Mentor: Dr. William Hockaday  
Burn It To The Ground: An Investigation of Geosequestered Bioxhars Using 13C NMR  
[Geology]

Board 60  Curtis Fenley  
Faculty Mentor: Dr. Daniel Peppe  
Magnetostratigraphy of the San Juan Basin, New Mexico  
[Geology]

Board 61  Veronica Lyons  
Faculty Mentor: Dr. Patrick Farmer  
Synthesis of Fe(III)hydroxy-octaethylporphyrin and its Derivatives to Understand the Reaction Mechanism of Heme Degredation  
[Chemistry & Biochemistry]

Board 62  Cassie Robertson, Jarrod P. Tunnell, Laxman Devkota and Zhe Shi  
Faculty Mentor: Dr. Kevin G. Pinney  
Design and Synthesis of Bridge-Modified Combretastatin Analogues  
[Chemistry & Biochemistry]
Board 63 Tyler Goddard, Christine A. Herdman and Tracy E. Strecker
Faculty Mentor: Dr. Kevin G. Pinney and Dr. Mary Lynn Trawick
Design and Synthesis of Benzosuberene Analogues as Potential Anti-Cancer Agents
[Chemistry & Biochemistry]

Board 64 William Wesson, Howard Chen and Charles Chang
Faculty Mentor: Dr. Bob Kane
Synthesis of a Crosslinker for Linking TLR Agonists to Proteins
[Chemistry & Biochemistry]

Board 65 Brandon Summerlin
Faculty Mentor: Dr. Kevin Chambliss
IM-MS Characterization of Asphaltene using a Violanthrone-79 Standard
[Chemistry & Biochemistry]

Board 66 Cody Scruggs
Faculty Mentor: Dr. Kevin L. Shuford
Tensile and Compressive Loading of Class 5 Amyloid Fibrils using MD Simulations
[Chemistry & Biochemistry]

Board 67 Jesse Hilton, Samuel Odutola and Jiangli Song
Faculty Mentor: Dr. Mary Lynn Trawick and Dr. Kevin G. Pinney
Cruzain Inhibition by Thiosemicarbazones as Therapeutics for Chagas’ Disease
[Chemistry & Biochemistry]

Board 68 Derek Newberger
Faculty Mentor: Dr. George P. Cobb (Baylor Univ.), Dr. Thomas Rainwater (Medical Univ. of South Carolina), Dr. Frank Mazzotti (Univ. Florida), Cherie Rose-Chenot (ACES, Belize) and Vince Rose (ACES, Belize)
Mercury and Transition Metal Accumulation in Scutes of American Crocodiles from Belize
[Environmental Science]
Board 69 Madison Baxter, Joel Kaufman, Marnie Hazelhurst, Cynnie Curl and Amanda Gassett  
**Faculty Mentor: Dr. Rebecca Sheesley**  
Residential Exposure to Indoor and Outdoor Volatile Organic Compounds  
[Environmental Science]

Board 70 David Dreier and Kristin Connor  
**Faculty Mentor: Dr. Bryan Brooks**  
Comparative Probabilistic Hazard Assessment of Estrogen Agonist Activity  
[Environmental Science]

Board 71 Stacy Sebastian  
**Faculty Mentor: Dr. Erica Bruce**  
The Development of a State Geodatabase for the Analysis of Vector-Borne Diseases  
[Environmental Science]

Board 72 Alec Sabatini, Byron Griffin, Capri Woolridge, Eliana Pelfrey, James Britven, Matt Ponder-Waldrup, Rachel Johnson, Sean Suris, Stephen Julian and Lissette Aguilar  
**Faculty Mentor: Dr. Sascha Usenko**  
Copper, Free Chlorine, and Total Chlorine Concentrations in Drinking Water Fountains  
[Environmental Science]

Board 73 Kevin Healy  
**Faculty Mentor: Dr. Vanessa Castleberry**  
Proof-of-Concept for Horizon Liquid Fuel Rocket  
[Chemistry and Biochemistry]

Board 74 Jeremy Smallwood  
**Faculty Mentor: Dr. Lorin Matthews**  
Investigation of the Photophoretic Force  
[Physics]
Board 75  Blake Birmingham, Yaobiao Xia, Dmitri Voronine and Kenneth Park  
Faculty Mentor: Dr. Zhenrong Zhang  
Copper Phthalocyanine Thin Film Growth for Surface Enhanced Raman Scattering  
[Physics]

Board 76  Dean Leonard, Darijana Horvat, Madhava R. Beeram, Steven R. Allen, Cynthia J. Meininger, David C. Zawieja, Thomas J. Kuehl and M. Nasir Uddin  
Faculty Mentor: Dr. Richard Sanker  
Hyperglycemia Induces Apoptotic Signaling in Cytotrophoblast Cells  
[Pre Health Studies]

Board 77  Nanjing Gao and Gregory Smith  
Faculty Mentor: Dr. Joaquin Lugo  
Kv4.2 Knockout Mice have Learning Deficits in the Lashley Maze.  
[Psychology and Neuroscience]

Board 78  Christopher Harrison-Missimo and Megan Haggard  
Faculty Mentor: Dr. Wade Rowatt  
Generation Me: Personality Correlates of Narcissism  
[Psychology and Neuroscience]

Board 79  Samantha Synett, Bryann B. DeBeer, Nathan A. Kimbrel, Eric Meyer, Suzy B. Gulliver and Sandra B. Morissette  
Faculty Mentor: Dr. Michael B. Frisch  
Impact of Deployments on Military Children  
[Psychology and Neuroscience]

Board 80  Tara Brynell and Jessica Hinshaw  
Faculty Mentor: Dr. Sara Alexander  
Risky Business? Challenges of Climate Change for the Tourism Industry in Belize  
[Anthropology]
Board 81  Matt Wiesehan and Erica Lathan
Faculty Mentor: Carol Macaulay-Jameson, MA
Analysis of the Lithic Assemblage from the 2013 Baylor University Field School
[Anthropology]

Board 82  Jennifer Husak
Faculty Mentor: Dr. Lori Baker
A Voice for the Unknown: Identification of Deceased Border Crossers
[Anthropology]
Hankamer School of Business
BUSINESS FELLOWS SESSIONS

Monday, March 31, 2014
Cashion 409

3:30  Ryan Johnson
Advisor: Marjorie Cooper
Comparing the Marketing Environment of the Modern Church and the Modern Corporation
[Department of Marketing]

Stuart Miller
Advisor: George Gawrych
Iraqi Kurds: Road to Genocide
[Department of History]

5:00  Lexi Luckenbill
Advisor: Gia Chevis
The Unintended Effects of Dodd Frank Act Section 1502: Conflict Minerals
[Department of Accounting]

Amy Miller
Advisor: Kathy Hurtt
Would You Blow-the-Whistle on a Friend? Analysis on the Significance of Relationships on Whistleblower Intentions
[Department of Accounting]
Tuesday, April 1, 2014
Cashion 408

3:30  Luke Smith
Advisor: Lisa Baker
Attitudes, Knowledge, and Behavior Concerning Reproductive Health and High-Risk Sexual Behavior among Males in Rural Western Kenya
[Honors College]

Cami Hebert
Advisor: Joyce Nuner
Premature Birth and the Impact on the Family System
[Department of Family & Consumer Sciences]

Drew McBrayer
Advisor: Jim Henderson
Title TBA
[Department of Economics]

5:00  Cassandra Maier
Advisor: Rita Abercrombie
Comparing Healthcare in the United States and Germany
[Department of Modern Foreign Languages]

Stephanie Ting
Advisor: Janya Martin
Gender Roles in German Fairy Tales
[Department of Modern Foreign Languages]

Paul Schlaudraff
Advisor: Adrienne Harris
Dostoevsky: An Exploration of the Russian Soul and Utopian Socialism in “The Brothers Karamazov”
[Department of Modern Foreign Languages]
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<thead>
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<th>Time</th>
<th>Presentation</th>
<th>Advisor</th>
<th>Department</th>
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<tr>
<td>3:30</td>
<td>Alex Dixon and Chris Workman</td>
<td>Andrea Dixon</td>
<td>[Department of Marketing]</td>
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<td>Developing an Internal Listening Program</td>
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<td><strong>Chelsea Richwine</strong></td>
<td><strong>Scott Cunningham</strong></td>
<td>[Department of Economics]</td>
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<td>Texas Natural Experiment: Examining the Causal Effects of Mass Incarceration on Crime</td>
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<td>5:00</td>
<td>Sarah Van Dyke</td>
<td>Van Pham</td>
<td>[Department of Economics]</td>
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<td>Estimating an Admitted Student's Propensity to Enroll at Baylor</td>
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<td><strong>Dustin Luse</strong></td>
<td><strong>Steve Green</strong></td>
<td>[Department of Economics]</td>
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<td>Primary Care Delivery Models: Improving Quality and Controlling Costs</td>
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<td><strong>Daniel Lin</strong></td>
<td><strong>Steve Green</strong></td>
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<td>Informal Economies in Caribbean Nations</td>
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<td><strong>Kevin Kelly</strong></td>
<td><strong>Steve Gardner</strong></td>
<td>[Department of Economics]</td>
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<td>The Economy of Galilee During the Time of Jesus</td>
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Thursday, April 3, 2014  
Cashion 409

3:30 Tara Funk  
**Advisor: Steve Bradley**  
Economic Freedom and Health  
[Department of Management and Entrepreneurship]

Richard Ashley  
**Advisor: Steve Bradley**  
Organizational Identification as a Factor in Microloan Repayment for Urwego Bank  
[Department of Management and Entrepreneurship]

Wesley Hodges  
**Advisor: Mitch Neubert**  
Organizational Visioning  
[Department of Management and Entrepreneurship]

5:00 Andrew Bowman  
**Advisor: Bryan Shaw**  
Leucocoria and Its Qualitative Associativeness to the Onset of Retinoblastoma  
[Department of Chemistry and Biochemistry]

Sarah Smith  
**Advisor: William Hillis**  
Aldosterone Synthesis in the Adrenal Glands of Fetal Bovine Embryos: An Overview of Laboratory Techniques  
[Department of Biology]

*Other business fellows:*  
Cassie Robertson  
Swathi Shankar
FUTURE UNDERGRADUATE RESEARCH EVENTS

School of Education 6th Annual Student Research Symposium
The Science of Wondering
April 1, 2014, 4:30 PM to 6:00 PM
Lee Lockwood Library, 2801 West Waco Drive, Waco, TX

Honors Week
Alexander Classroom
Honors Theses Presentations: Monday-Friday, April 7-11

Barfield Drawing Room
Honors Banquet: TBA;
Honors Convocation: 2 PM, Friday, April 11

For more details, visit www.baylor.edu/honorscollege

CUR (Council on Undergraduate Research)
National Conference on Undergraduate Research:
University of Kentucky, April 3-5
Undergraduate Research Week: April 14-18

For more details visit www.cur.org
Art Student Exhibition

March 27 – April 15

The Martin Museum of Art at Baylor University will feature the annual Baylor Art Student Exhibition beginning March 27th at 5:30pm and running through April 15th. Renowned Texas artist, Sedrick Huckaby, is the guest juror and will present awards to the students March 27.

Sedrick Huckaby’s rich impasto paintings celebrate family history, faith, and community. Combining the languages of representation and abstraction, they evoke overlooked cultural traditions and the improvisational colors of jazz. Born in 1975 in Fort Worth, Texas, Huckaby earned his BFA at Boston University in 1997 and his MFA from Yale University in 1999, before returning home to Fort Worth where he currently lives and works. His paintings and drawings have been featured in numerous exhibitions across the country and his works are included in the permanent collection of the Museum of Fine Arts, Boston; the Whitney Museum of American Art, New York City; and the African American Museum in Dallas.

Hours are 10am-6pm Tuesday- Friday,
10am-4pm Saturday and 1-4pm Sunday.

For more information call 254.710.1867
or visit the museum website at www.baylor.edu/martinmuseum