UNIVERSITY OF ST. THOMAS PRESENTS

RESEARCH

'Apprentices to Knowledge'

An apprentice is a person who is learning a skill or trade at the side of someone who is accomplished and recognized in the field. Some teaching styles view students as persons who must be "filled" with knowledge by the professor or mentor, and is more passive. An apprentice helps to construct their own knowledge base and by doing so, they develop ownership of that knowledge.

2013 Research Symposium • Thursday - Saturday, April 11-13

Thursday, April 11
Crooker Center

4 - 6 p.m.	Poster Reception

Friday, April 12
Crooker Center & Jerabeck Gymnasium

8 a.m. - 3:45 p.m.	Oral Presentations (Crooker Center)
10 a.m. - 5 p.m.	Posters on Display (Jerabeck Gym)
4 - 5 p.m.	Honors Colloquium (Scanlan Room, Jerabeck Center)
5:30 - 8:30 p.m.	Poster Judging (Jerabeck Gym)

Saturday, April 13
Crooker Center & Jerabeck Gymnasium

9 a.m. - 3 p.m.	Oral Presentations (Crooker Center)
9 a.m. - Noon	Posters on Display (Jerabeck Gym)

UNIVERSITY of ST. THOMAS

Apprentices to Knowledge

"Every year our undergraduate students present educational, interesting and even inspiring topics at our Research Symposium. Their accomplishments reflect the inspirational guidance of their faculty advisors who devote a great amount of time and energy to their students' research and presentation. The annual Research Symposium is a glimpse of the excellence of a St. Thomas education."

Dr. Robert Ivany
President
University of St. Thomas

"The theme of the 2013 Research Symposium, "Apprentices to Knowledge," describes a way of learning that has a long tradition in Catholic education, and that thrives at the University of St. Thomas. Apprentices have a unique and close relationship to their teachers, teachers who model a whole way of life surrounding the pursuit of knowledge and the constant joy of new discoveries. We are all "apprentices to knowledge" insofar as we acknowledge that learning is a life-long project. The University of St. Thomas Research Symposium is an annual reminder of the joy of such an apprenticeship."

Dr. Dominic Aquila
Vice President for Academic Affairs
University of St. Thomas

This year's theme is "Apprentices to Knowledge". We selected this theme to reflect the "active" nature of learning through research, as opposed to being exposed to knowledge (passive learning) through more traditional means. When students are involved in research activities, either alone or with a faculty mentor, they are working to create the knowledge that they will possess. This gives the students more ownership of that knowledge.

Dr. Maury Harris
Chair, Undergraduate Research Committee

POSTER PRESENTATIONS

Thursday, April 11, 2013
Poster Reception, 4:00 – 6:00 PM
PRESENTERS SHOULD ATTEND
Crooker (Ahern, Council of Clubs, Old Book Store)

Friday, April 12, 2013
Posters on Display, 10:00 AM – 5:00 PM
Gymnasium, Jerabeck

Friday, April 12, 2013
Poster Judging, 5:30 – 8:30 PM
ALL PRESENTERS REQUIRED TO ATTEND
Gymnasium, Jerabeck

Saturday, April 13, 2013
Posters on Display, 8:00 AM - Noon
Gymnasium, Jerabeck

NOTE:
POSTERS MUST BE PICKED UP AT NOON, SATURDAY

ORAL PRESENTATIONS

Friday, April 12, 2013
Council of Clubs, Crooker

8:00 AM	Grant, McCracken, *SANDMAN*, BY NEIL GAIMAN.
8:20 AM	Kriescher, John, A CLOCKWORK ORANGE: A RIPENING OF THE ORANGE, English - Shannon Forbes, Capstone.
8:40 AM	Salazar, Adam, THE NEW AGE, English - Charles Stuart Krohn, Capstone.
9:00 AM	Boyd, Rachel, ARS LONG VITA BREVIS: THE PURPOSE OF ART IN JOHN KEATS' "ODE TO A NIGHTINGALE" AND "ODE ON A GRECIAN URN", English - James Barloon, Capstone.
9:20 AM	McGee, Lindsay, "MORALISING ON THE STRONG AND THE WEAK": THE UNANSWERED QUESTION OF CONFLICTING VALUES IN WUTHERING HEIGHTS, English - James Barloon, Capstone.
9:40 AM	Treadwell, Samantha, THE DUALITY OF LADY AUDLEY, English - Kerry J. MacArthur, Capstone.
10:00 AM	BREAK
10:20 AM	Kyle, Brooke, *THE BOXING MATCH*, English - Janet Lowery, Capstone.

10:40 AM Palacios, Janelly, *COLORS OF THE EASTERN SKY*: A COLLECTION OF POETRY, English - Janet Lowery, Capstone.

11:00 AM Topaum, John, *DARKNESS VISIBLE*, English - Janet Lowery, Capstone.

11:20 AM Sandler, Barbara, DAISY AND THE DEATH CAR, THE GREEN LIGHT AND THE YELLOW COUPE, English - James Barloon, Capstone.

11:40 AM Sanders, Jacqueline, STOKER'S FORMULA FOR FEAR, English - Shannon Forbes, Capstone.

12:00 LUNCH, Scanlan

1:00 PM Arendt. Matt, "A REVOLUTION AGAINST THE HUMAN SOUL": NATIONAL SOCIALISM AND THE CHURCHES, History - Lee J. Williames, Capstone.

1:20 PM Bilstein, Andrea, THE SEARCH FOR Z: CITY OF DREAMS IN A LAND OF NIGHTMARES, History - Thomas J. Crow, Capstone.

1:40 PM Hart, Johnathan, DEFENDING INJUSTICE: HOW THE SOUTH JUSTIFIED SLAVERY, History - Lisa Mundey, Capstone.

2:00 PM Holzworth, Valerie, GUERRILLA WARFARE: THE EVOLUTION OF U.S. ARMY TACTICS DURING THE CIVIL WAR, History - Lisa Mundey, Capstone.

2:20 PM BREAK

2:40 PM Osborne, Sean, THE REFLECTION OF THE BOMB: THE LASTING EFFECTS OF THE COLD WAR AS SHOWN IN THE MEDIA, History - Lisa Mundey, Capstone.

3:00 PM Troxler, Matthew S. J., "THANK GOD I HAVE DONE MY DUTY": AN ANALYSIS OF THE BATTLE OF TRAFALGAR, History - Thomas J. Crow, Capstone.

3:20 PM Uribe, Gabriela[1]; Johnson, Coreen[1]; Larios, Maia[2]; Versalovic, James[1]; Pokusaeva, Karina[1], PRODUCTION OF GAMMA-AMINOBUTYRIC ACID BY THE INTESTINAL COMMENSAL BACTERIUM BIFIDOBACTERIUM DENTIU , [1]Department of Pathology and Immunology, Baylor College of Medicine,. [2]Department of Biology, University of St. Thomas. Biology - Maia Larios-Sanz.

3:40 PM Rastegari, Sheila; Makthal, Nishanth; Sanson, Misu; Zhen, Ma; Olsen, Randall J.; Helmann, John; Musser, James; Kumaraswami, Muthiah., CRYSTAL STRUCTURE OF PEROXIDE STRESS REGULATOR (PERR) FROM STREPTOCOCCUS PYOGENES REVEALS A UNIQUE N, Biology - Maia Larios-Sanz.

Friday, April 12, 2013
Old Bookstore, Crooker

8:00 AM Broumand, Nina, THE IMPACTS OF COCAINE PRODUCTION: THE ECONOMIC CASES OF BOLIVIA, COLOMBIA, AND PERU, International Studies - Ulyses Baldares, Capstone.

8:20 AM Romo, Seth Adrian, THE HIDDEN WATER TRADE OF BRAZIL AND MEXICO, International Studies – Linda Pett-Conklin, Capstone.

8:40 AM	Vega, Indira, INFECTED BY DRUG CARTELS, International Studies - Ulyses Baldares, Capstone.
9:00 AM	Ferramosca, Chelsea, ALL IS FAIR IN TIMES OF WAR: THE LEGALITY, MORALITY, AND REALITY OF GUANTANAMO BAY AND MILITARY TRIBUNALS, International Studies - Ulyses Baldares, Capstone.
9:20 AM	Stephanie Hernandez, A WORLD BUILT ON INEQUALITY, International Studies - Ulyses Baldares, Capstone.
9:40 AM	Mustafa, Nadeen, THE 5TH WAVE OF DEMOCRACY: WILL LIBYA BE ALONG FOR THE RIDE? International Studies - Hans Stockton, Capstone.
10:00 AM	BREAK
10:20 AM	Corovessis, Sophia, WHY CULTURE MAKES ALMOST ALL THE DIFFERENCE: THE GREEK FINANCIAL CRISIS, International Studies – Linda Pett-Conklin, Capstone.
10:40 AM	Jester, Chloe, A SOCIAL IMPACT ANALYSIS ON HOSTING THE OLYMPIC GAMES IN THE 21ST CENTURY, International Studies - Hans Stockton, Capstone.
11:00 AM	Macieira, Ana, CAUSES OF POOR HUMAN DEVELOPMENT IN SUB-SAHARAN AFRICA: ANGOLA, International Studies - Hans Stockton, Capstone.
11:20 AM	Turcios, Evelin, DOES IT MATTER? THE EFFECTS OF INCOME INEQUALITY ON POPULATION HEALTH, International Studies - Ulyses Baldares, Capstone.
11:40 AM	Valle, Marissa, UNPROTECTED ROMA RIGHTS: A CALL TO EUROPEAN NATIONS, International Studies - Linda Pett-Conklin, Capstone.
12:00	LUNCH, Scanlan
1:00 PM	Kisielewski, Dominic, THE IMPACT OF THE EUROPEAN UNION ON EASTERN EUROPE: A BENEFIT OR NOT? International Studies - Ulyses Baldares, Capstone.
1:20 PM	Tedeschi, Gaia, RESILIENCE-FOCUSED PSYCHOTHERAPY FOR THE TREATMENT OF REFUGEE TRAUMA, International Studies - Linda Pett-Conklin, Capstone.
1:40 PM	Trevino, Jennifer, DIGITIZING CREDIBILITY: WASTE PICKER COOPERATIVES AND WEBSITES, International Studies - Linda Pett-Conklin, Capstone.
2:00 PM	Starnes, Susannah, THE CURRENT ROLES OF ETHNICITY AND CONFLICT ON THE SUB-SAHARAN STAGE, International Studies - Hans Stockton, Capstone.
2:20 PM	BREAK
2:40 PM	Nelson, Gillian, EGYPT AND TUNISIA: SOCIAL MEDIA REVOLUTIONS? International Studies - Linda Pett-Conklin, Capstone.
3:00 PM	Surrette, Maggie, INSTITUTIONAL BULLYING AMONG YOUTH IN A CLOSED CUSTODY YOUTH CORRECTIONAL FACILITY, Criminology and Criminal Justice – Susan Reid, St. Thomas University, Fredericton, NB, Canada.
3:20 PM	Vienneau, Ryan, THE SECOND AMENDMENT, Political Science – Patrick Malcolmson, St. Thomas University, Fredericton, NB, Canada.
3:40 PM	Wesson, Blair, DIVE FOR DREAMS: A ONE ACT PLAY, English – Charles Krohn.

Friday, April 12, 2012
Ahern, Crooker

8:00 AM	OPEN TIME
8:20 AM	Svabic, Elizabeth, THE INTERNET AND SOCIAL ENGAGEMENT: ASSESSING VIRTUAL CIVIC ENGAGEMENT, Political Science – John R. Taylor.
8:40 AM	Liu, Susana, SOCIAL HARMONY, POLLUTION, AND THE CHINESE COMMUNIST PARTY: PROSPECTS FOR ENVIRONMENTAL POLICY REFORM IN CHINA, MLA - Political Science – Jon R. Taylor.
9:00 AM	Loukanis, James, THE RELATIONSHIP BETWEEN VIOLENT MEDIA AND VIOLENT CRIME: ITS IMPACT ON POLICY AND FREE SPEECH, Political Science – Jon R. Taylor.
9:20 AM	Nguyen, Hien, U.S. FEDERAL GOVERNMENT BUDGET: AN ANALYSIS ON REVENUES, EXPENDITURES AND THE BUDGET DEFICIT, Political Science - Dr. Jon R. Taylor.
9:40 AM	Zhou, Ying, THE ADOPTED CHILD: RIGHTING A WRONG IN CHINESE-AMERICAN IMMIGRATION, Political Science – Jon R. Taylor.
10:00 AM	BREAK
10:20 AM	OPEN TIME
10:40 AM	Hoyt, Kenneth, THE GRECO-ROMAN EPISTOLARY GENRE IN PAUL'S LETTER TO THE COLOSSIANS, Theology - Undergraduate - Fr. Rosales-Acosta.
11:00 AM	Benitez, Jennifer, GREGORIAN CHANT IN THE CHURCH, Theology - Undergraduate - Sr. Grace, CVI.
11:20 AM	Bonilla, Andrea , ST. COLUMBA, APOSTLE OF IRELAND, Theology - Undergraduate - Sr. Grace, CVI.
11:40 AM	McCorkle, Allison R., THE EVENT OF THE RESURRECTION IN THE SYNOPTIC GOSPELS: A HISTORICAL AND THEOLOGICAL APPROACH, Theology - Undergraduate - Fr. Rosales-Acosta.
12:00	LUNCH, Scanlan
1:00 PM	Manno, Allyson, The Influence of Film and Television During War, Communications – Robin N. Williamson.
1:20 PM	Strom, William, RELATIONAL REDEFINITION, Communication - Robin N. Williamson.
1:40 PM	McNicoll, Jennifer, COMMODITY AND EQUITY CORRELATION AND CAUSES, Economics, Finance & Decision Information Sciences – Joe Ueng.
2:00 PM	Reardon, Rebecca, THE ALTERNATIVE MINIMUM TAX: A TAX GONE BAD, Accounting - Ramon Fernandez.
2:20 PM	BREAK
2:40 PM	Iglesias, Gabriel, ANOTHER REALITY: PARALLEL WORLDS IN THREE ARGENTINEAN SHORT STORIES, Modern & Classical Languages – Elizabeth Coscio, Capstone.
3:00 PM	Garza, Brittany, HARBORING HOPE FOR HOUSTON'S HOMELESS: A MATHEMATICAL MODEL OF VOLUNTEER OUTREACH, Mathematics -Jack Leonard Follis.
3:20 PM	PRESENTATION WITHDRAWN

3:40 PM Parra, Mariolga, MEASURING THE EFFECTIVENESS OF A ONE-WAY 50-50 DUAL LANGUAGE PROGRAM, Education -Catherine R. Barber. Both.

Friday, April 12, 2012
Room 201, Jerabeck

1:00 PM Yaacoub, Alan; Steiger, Michelle; and Mellis, Birgit, COUPLING OF GOLD NANOPARTICLES TO PROTEINS VIA CROSSLINKERS, Chemistry and Physics – Birgit Mellis.

1:20 PM Amouri, Jamelleh; Niemann, Kendall; Mellis, Birgit; Crawford, Wheeler, SYNTHESIS AND CHARACTERIZATION OF GOLD NANOPARTICLES USING BIOMOLECULES AS REDUCING AGENTS AND LIGANDS: A CONTINUATION STUDY, Chemistry and Physics – Birgit Mellis.

1:40 PM Cara, Lukas; Clarage, James, AUTOMATING THE STUDY OF CHAOS IN PROTEIN DYNAMICS WITH PYTHON, Chemistry and Physics – James Clarage.

2:00 PM Valdez, Elvia, EXAMINING ATTITUDES AND CULTURES THAT AFFECT COLLEGE ATTAINMENT FOR FIRST GENERATION STUDENTS, Education – Catherine Barber.

2:20 PM BREAK

2:40 PM Sornson, Jennifer, THE IMPACT OF VICTORIAN NORMS ON THE INDIVIDUAL, English – Shannon Forbes, Capstone.

3:00 PM Ahmed, Anam; Acebos, Sally; Hameed, Samee; Vu, Jackie; Covey, Tracy, INVESTIGATING THE ROLE OF APEH ENZYME IN CANCER, Chemistry & Physics -Tracey Covey. Both.

3:20 PM OPEN TIME

Friday, April 12, 20113
4:00 PM
Honors Colloquium
Scanlan Room, Jerabeck Athletic Center

4:00 PM **PERSON: THE ENDANGERED SPECIES**

Presenters: Brittany Garza (Mathematics), Peter Karagozian III (Biology), John Kriescher III (English), Jennifer McNicoll (Finance), Meeka Opong (Music), Rebecca Reardon (Accounting), Ryan Reynolds (Biology), Shelby Stinner-Trimble (Biochemistry), Dustyn Tobin (Biology), William Trumble (Philosophy), Marissa Valle (International Studies).

F**aculty Sponsor:** Rev. Anthony E. Giampietro, CSB

Saturday, April 13, 2013
Ahern, Crooker

8:00 AM	OPEN TIME
8:20 AM	Prater, Djuna, LATE-LIFE DIVORCE AND ITS IMPACT ON WOMEN, Education – Catherine R. Barber, Capstone
8:40 AM	Steinbrecher, Shannon , THE IMPACT OF SOCIAL MEDIA IN THE PEOPLE'S REPUBLIC OF CHINA, International Studies - Linda Pett-Conklin, Capstone.
9:00 AM	Soto-Moreira, Lisa M. THE 2015 COUNTDOWN: ACHIEVING THE MILLENNIUM DEVELOPMENT GOAL – 4: A SETUP FOR SUCCESS OR SETBACK TOWARDS FAILURE. International Studies – Hans Stockton. Capstone.
9:20 AM	Yong, Pei, COUNTERFEIT CLOTHING AND WOMEN'S GROWING INDIVIDUALIZATION IN CHINA, MLA – International Studies - Fukutomi Satomi.
9:40 AM	Liao, Zhenghua, HOW A RISING CHINESE YUAN WILL AFFECT CHINA'S ECONOMY, Accounting – John E. Simms.
10:00 AM	Lay, Jose, US GAAP VS. IFRS FOR A MULTINATIONAL TRADING FIRM, Accounting – John E. Simms.
10:20 AM	BREAK
10:40 AM	Zeglin, Crystal, MEASURES TO PREVENT TAX EVASIONS IN THE CAYMAN ISLANDS AND THE ISLE OF MAN, Accounting – John E. Simms.
11:00 AM	Coronado, Gustavo, CROWDFUNDING FOR SMALL BUSINESSES, ENTREPRENEURS AND INVESTORS, Accounting – John E. Simms.
11:20 AM	Witt, Mary Beth, ISLAMIC INFLUENCE ON BUSINESS PRACTICES AND ACCOUNTING STANDARDS IN SECULAR SOCIETY: A CASE STUDY OF FRANCE, Accounting – John E. Simms.
11:40 AM	Shaikenova, Samal, CONTEMPORARY ISSUES IN THE ISLAMIC FINANCE INDUSTRY, Accounting – John E. Simms.
12:00	LUNCH, Scanlan
1:00 PM	Altabari, Mohamad, US GAAP VS. IFRS TREATMENT OF CAPITAL LEASES, Accounting – John E. Simms.
1:20 PM	Fathinejad, Mona, THE IFRS'S IMPACT ON RESERVES IN OIL AND GAS INDUSTRY, Accounting – John E. Simms.
1:40 PM	Gustilo, Gerard L., TO REIT OR NOT TO REIT. THE PHILIPPINES' REAL ESTATE INVESTMENT TRUST DILEMMA, Accounting – John E. Simms.
2:00 PM	Folger, Katharine, REDUCING RISK ASSOCIATED BRIBERY OF FOREIGN OFFICIALS THROUGH ANTI-CORRUPTION INTERNAL CONTROLS, Accounting – John E. Simms.
2:20 PM	Ghandi, Rajvi, EMERGING RESULTS OF MANAGING WASTE, Accounting – John E. Simms.
2:40 PM	Zeevaert, Maria, OUTBOUND TRANSFER PRICING STRATEGIES IN THE UNITED STATES, Accounting – John E. Simms.

Posters Presenters and Titles

1. Ahmed, Anam; Acebos, Sally; Hameed, Samee; Vu, Jackie; Covey, Tracy, INVESTIGATING THE ROLE OF APEH ENZYME IN CANCER, Chemistry & Physics -Tracey Covey, Both.
2. Rubio, Anabel, Birgit Mellis , Wheeler Crawford, SOLVENT EFFECTS ON THE SYNTHESIS OF GOLD NANOPARTICLES USING POLYETHERAMINES, Chemistry & Physics - Birgit Mellis.
3. Zavala, Michelle ,Crawford, Wheeler, SYNTHESIS OF GOLD NANOPARTICLES USING POLYPHENOLICS AS REDUCING AGENTS, Chemistry & Physics - Birgit Mellis.
4. Dixon, Elizabeth; Campos, Cristian; Ton, Maria; Cranmer, Daniel; Foytik, Brandy; Chirino, Charlie; Batamo, Shuhsien; Roy, Paul; Ledesma, Elmer, VAPOR-PHASE CRACKING OF EUGENOL: DISTRIBUTION OF TAR PRODUCTS AS FUNCTIONS OF TEMPERATURE AND RESIDENCE, Chemistry & Physics - Elmer Ledesma.
5. Gonzalez, Evangelina; Niemann, Kendall; Manesh, Maryam, PHOTOTHERMAL EFFECTS IN METAL NANOPARTICLES, Chemistry and Physics - Birgit Mellis.
6. Hernandez, Valeria; Dixon, Elizabeth; Nguyen, Quan; Le, Vy; Paz, Sonia; Batamo, Shuhsien; Fortune, Karen; Ledesma, Elmer, GAS-PHASE PRODUCTS FROM THE PYROLYSIS OF EUGENOL: WORK IN PROGRESS REPORT, Chemistry & Physics - Elmer Ledesma.
7. Hosain, Batool, OXIDATION OF 2,3-DIMETHYLQUINOXALINE, Chemistry & Physics -Crawford Wheeler.
8. Jose, Jisha; Wheeler Crawford, Tracey Covey, SYNTHESIS OF DIFFERENT FLAVONES FROM CHALCONES, TESTING FOR ANTIBIOTIC PROPERTIES, Chemistry & Physics -Crawford Wheeler.
9. Lagos, Miriam; Wheeler, Crawford, SYNTHESIS OF AN AROMATIC POLYETHER-DIAMINE-CURING AGENT, Chemistry & Physics -Crawford Wheeler.
10. Lopez, Angela G.; Crawford, Wheeler; Covey, Tracy, SYNTHESIS OF DINITROCHALCONES, THEIR REDUCTION TO DIAMINOCHALCONES AND THEIR EVALUATION OF BIOLOGIC, Chemistry & Physics -Crawford Wheeler.
11. Martinez, Ivy, SYNTHESIS OF COPPER NANOPARTICLES, Physics and Chemistry – Crawford Wheeler.
12. Nguyen, An; Vu, Dac, DIFFERENT TIME SCALES IN NMR AND RAMAN SPECTROSCOPY: AQUEOUS PHOSPHATE SOLUTIONS FROM PH 1 TO 14, Chemistry & Physics -Thomas Malloy.
13. Niemann, Kendall; Gonzalez Evangelina, CHARACTERIZATION OF SELF SYNTHESIZED METAL NANOPARTICLES, Chemistry and Physics - Birgit Mellis.
14. Stinner-Trimble, Shelby; Garcia, Ashley; Herrera, Daisy; Isichei, Ada; Finney, Sarah; Olaleye, Omonike; Rosell, Rosemarie; Steiger, Michelle, TESTING CYTOTOXICITY OF METHIONINE AMINOPEPTIDASE INHIBITORS, Chemistry & Physics -Michelle Steiger, Capstone.
15. Tran, Hoa; Zaibaq, Nicholas, NMR EXPERIMENTS FOR FRESHMEN, Chemistry & Physics -Thomas Malloy.
16. Yaacoub, Alan, Steiger, Michelle; Mellis, Birgit, COUPLING OF GOLD NANOPARTICLES TO PROTEINS VIA CROSSLINKERS, Chemistry & Physics - Birgit Mellis.
17. Yaacoub, Alan, Steiger, Michelle; Mellis, Birgit, CROSSLINKING PROTEINS TO GOLD NANOPARTICLES, Chemistry & Physics - Birgit Mellis.
18. Zaibaq, N; Mellis, B; Crawford, W., STABLE COLLODIALLY-DISPERSED GOLD NANOPARTICLES USING AMINO ACIDS AS REDUCING AGENTS, Chemistry & Physics -Crawford Wheeler.
19. Zaibaq, Nicholas, Alemany, Lawrence (Rice University), THE USE OF SPECTRAL SIMULATION IN THE ANALYSIS OF THE COMPLEX NMR SPECTRA OF SIMPLE ORGANIC FLUORINE COMPOUNDS, Chemistry & Physics -Thomas Malloy.

20. Amaya, Brenda S.; Tobin, Dustyn P.; Rosell, Rosemarie C. IDENTIFICATION OF BACTERIAL PRIMARY ENDOSYMBIONTS IN VARIOUS WHITEFLY SPECIES WORLDWIDE, Biology – Rosemarie Rosell.
21. Cara, Lukas; Duong, Franklin; Baitemirova, Medina; Romero, Luis; Larios, Maia; Ribes-Zamora, Albert, THE SCD DATABASE, A BIOINFORMATIC TOOL TO IDENTIFY NEW GENES INVOLVED IN THE DNA DAMAGE RESPONSE, Biology -Albert Ribes-Zamora.
22. Duong, Gina; Reynolds, Ryan; Knippa, Zoé; Skeen-Esterheld, Heather; Dao, Cecilia; Karagozian, Peter; Bramblett, Debra; Ledesma, Elmer; Rosell, Rosemarie. DETERMINING THE LETHAL CONCENTRATION OF TOLUENE ON *DROSOPHILA MELANOGASTER* AND THE RESULTING MORPHOLOGICAL EFFECTS OF TOLUENE EXPOSURE ON FLY OFFSPRING, Biology – Rosemarie Rosell.
23. Gries, Paul; Maldanado, Oscar; Yanez, P.L.; Amin, S., INVESTIGATION OF THE CYTOTOXIC MECHANISM OF POLY-GLUTAMINE AGGREGATES, Biology -Shivas Amin.
24. Harirah, Rawan; Maccato, Elizabeth; Meis-Kindblom, Moa; Merta, Holly; Nguyen, Lisa; Pinell, Ana; Simmons Nout, Alexandra , SNP-MAPPING OF TREMBLER MUTANTATION IN *C. ELEGANS*, Biology - Alexandra Simmons Nout.
25. Hasan, Syeda; Pacheco, Claudio; Andrade, Dena; Fatima, Mehwash; Rastegari, Sheila; McWhinney, Dalton; Larios-Sanz, Maia., ISOLATION AND CHARACTERIZATION OF BACTERIAL PHAGE: METAGENOMICS STUDY OF PHAGE POPULATION FROM SOIL, Biology - Maia Larios-Sanz.
26. Nunez, Tatiana; Alsina, Katherina; Anderson, Chris; Jain, Renu; Jabbur, James; and Ribes-Zamora, Albert. XRCC4 AND XLF INTERACT WITH TRF1 AND TRF2 AT TELOMERES, Biology – Albert Ribes-Zamora.
27. Pham, Antony; Bui, Brian; Pham, Huy; Le, Michael; Nguyen, Andy; Pham, Michael, Han, Hans; and Larios-Sanz, Maia, ISOLATION AND IDENTIFICATION OF NATURALLY OCCURING MULTI-DRUG RESISTANT BACTERIAL ISOLATES FROM FISH GUTS, Biology – Maia Larios-Sanz.
28. Ribadeneyra, Carla; Rabaza-Saunders, Ruth; Iqbal, Junaid; ,Amin, Shivas, KATG PLAYS AN IMPORTANT ROLE IN THE REDUCTION OF HYDROGEN PEROXIDE IN ESCHERICHIA COLI UNDER OXIDATIATIVE STRESS, Biology -Shivas Amin.
29. Tayabali, Huzefa; Balsara, Dipa; Hari, Devi; Jalali, Shazli; Pierce, Marla; Huq, Muhammad; Abebe, Biruh; Sen, Pramila; Alvanipour, Sarah; Bagnall, Ruth-Ann; Rosell, Rosemarie. BACTERIA THIRD MEMBER IN THE SYMBIOTIC RELATIONSHIP BETWEEN SEA ANEMONE AND THEIR *SYMBIODINIUM* ALGAL SYMBIONTS, Biology – Rosemarie Rosell.
30. Tobin, Dusty Patrick; Bassiri, Troy; Weaver, Kayla, EVOLUTIONARY TRACE ANALYSIS OF THE KU HETERODIMER, Biology – Albert Ribes-Zamora.
31. Tran, Anthony; Echeverri, Victoria; Pham, Christine; Nguyen, Nhi; Hogan, Kyna; Huerta, Yvette; Lopez, Anavilma, Ribadeneyra, Clara; Johnson, Cassidy; Schmitz, Kelly; Amin, Shivas, GENETIC DIVERSITY WITHIN A POPULATION OF BUFO HOUSTONENSIS, ESTIMATING LINEAGE WITH MITOCHONDRIAL D-LOOPS, Biology –Shivas Amin.
32. Vo, Thiennga; Navarro, Melyssa; Maldonado, Jason; Radford, Elizabeth; Cover, Brian; Dewey, Jill, A PURIFICATION PLAN FOR PREDICTED *E.COLI* MEMBRANE PROTEINS YECN AND YIDH, Biology – Jill S. Dewey.
33. Weaver, Kayla; Bassiri, Troy; Tobin, Dusty; Ribes, Albert, VISUALIZATION OF XLF-XRCC4 FILAMENTS USING PFCA, Biology -Albert Ribes-Zamora, Capstone.
34. Becker, Kristen; Calero, Paula; deTranaltes, Rosalyn; Dinh, Kim; Georges, Samantha; Jolly, Robert; Mendez, Danielle; Mendonca, Adam; Moreno, Fernando; Nguyen, Alin, THIS WEEK IN SELF-CONTROL, Psychology - Carl W. Scott, Capstone.
35. Calero, Paula; Roy, Addison; Strang, Katie; Treece, Bonnie, DEATH ATTITUDES SCALE, Psychology -Srijana Shrestha.

36. Calero, Paula; Shrestha, Srijana, DEATH ATTITUDES AND RELIGIOSITY, Psychology -Srijana Shrestha.
37. Cortes, Jose; De Leon, Felipe; deTranaltes, Rosalyn; Jolly, Robert, STUDENT HEALTH LOCUS OF CONTROL, Psychology -Srijana Shrestha.
38. Holzworth, Valerie, ATTITUDES TOWARDS ALTERNATIVE FAMILY ADOPTION, Psychology - Jo Anne Meier-Marquis.
39. James, Brittany; Holzworth, Valerie; Avelar, Sirenia; Bedi, Priya., FINANCIAL STRESS IN AN ACADEMIC SETTING, Psychology -Srijana Shrestha.
40. Trejo, Rachel; Kain, Alyssa; Salazar, Adam; Velez, Caroline, ROLE OF A DISCLAIMER WITHIN THE RELATIONSHIP BETWEEN SWIMSUIT FASHION ADVERTISEMENTS AND BODY IMAGE, Psychology - Trish Vandiver.
41. Kain, Alyssa; Salazar, Adam; Trejo, Rachel; Velez, Caroline, THE IMPACT OF SOCIAL JUSTICE BELIEFS ON ENVIRONMENTAL AWARENESS, Psychology - Trish Vandiver, Capstone.
42. Lagos, Miriam; Shrestha, Srijana, RELATION AMONG ABUSIVE DATING RELATIONSHIPS AND SELF-ESTEEM AMONG COLLEGE STUDENTS, Psychology -Srijana Shrestha, Capstone.
43. Roy, Addison; Shrestha, Srijana, JUST DANCE 2 AND THE ROLE OF SOCIAL FACILITATION, Psychology -Srijana Shrestha, Capstone.
44. Trejo, Rachel, RELATIONSHIPS AMONG MAGAZINE EXPOSURE, SELF OBJECTIFICATION, AND BODY SHAME, Psychology – Srijana Shrestha, Capstone.
45. Turcois, Belen, RELATIONSHIP BETWEEN VOLUNTEER SATISFACTION AND COMMITMENT, Psychology – Ly Phan.
46. Vavra, Ronald; Diaz, Gabriela; Lui, Victoria; Perez, Nettie; Reinoso, Alessandra; Bedi, Priya, PERCEPTIONS OF POST-SECONDARY VETERAN SERVICES, Psychology - Ly U. Phan, Capstone.
47. LeBrasse, Kallie, EXAMINING THE USE OF PLAY ACTIVITIES TO INCREASE APPROPRIATE CLASSROOM BEHAVIORS, Education -Catherine R. Barber, Capstone.
48. Parra, Mariolga, MEASURING THE EFFECTIVENESS OF A ONE-WAY 50-50 DUAL LANGUAGE PROGRAM, Education -Catherine R. Barber. Both.
49. Setchell, Angelic G., INFIDELITY AT ONE'S FINGERTIPS, Education -Catherine R. Barber, Capstone.
50. Hudson, Esther; Osorio, Jennifer; Savino, FSE, Ph.D., Sister Damien Marie; Brandstetter, Nicholas; Camell, Kathryn; Jason, Jason; Mezue, Chisom; Nguyen, Ann; Grigsby, Ph.D., Susan; Sera, Ph.D., Wendy, PRELIMINARY ANALYSIS OF EDC'S IN HOUSTON WASTEWATER, Environmental Science and Studies – Sr. Damien Marie Savino.
51. Rountree, Tyler, 2010 TEXAS EDUCATION AGENCY RATING COMPARISON OF SELECT HIGH SCHOOLS IN HISD, EPISD, & DISD , Environmental Science & Studies – William Harris, Jr.
52. Shields, Kelly, USING COMPUTER MAPPING TO ANALYZE ISSUES RELATED TO THE DEBATE ABOUT VOTING RESTRICTIONS, Environmental Science & Studies – William Harris, Jr.
53. Ollero, Joveline; Banh, Anthony, AN APPROXIMATE METHOD FOR ELLIPITICAL PERIMETER, Mathematics -Henry Foust.
54. Le, Jennifer; Acarturk, Mark; Medina, Amilda; Morales, Jared; Stocker, Christian; Tran, Khanh; and Nordyke, PhD, Ellis L., A PHYLOGENY OF TWO SYMPATRIC SPECIES OF *LAMPROPELTIS*: *L. ALTERNA* AND *L. TRIANGULUM CELAENOPS* (SERPENTES: COLUBRIDAE), Biology – Ellis L. Nordyke.
55. Le, Jennifer and Ellis L. Nordyke, PhD, Ellis L., A Natural History of the Gray-Banded King Snake *Lampropeltis alterna* (Serpentes: Colubridae), Biology – Ellis L. Nordyke.

Undergraduate Research at UST
Statement from the Undergraduate Catalog

Engaging in research projects with faculty members provides students special learning opportunities that deepen their knowledge of a subject. Students develop analytical and writing skills and emerge from the experience as critical thinkers and confident speakers. Undergraduate research is an increasingly important component of students' education experience across the curriculum. Most major programs and the Honors Program offer a capstone experience consisting of creative scholarship in the student's major, guided by a faculty advisor. Annually, during the spring semester, the Undergraduate Research Committee sponsors the University of St. Thomas' Research Symposium. Students, both graduate and undergraduate, are encouraged to present at local, regional, national and international conferences, and many students publish their findings in peer reviewed publications.

The Undergraduate Research Committee organized this 19th annual symposium to showcase scholarship at the University of St. Thomas. The members for the 2012 – 2013 year were:

Maury Harris (Committee Chair)
Alexandra Simmons Nout (Poster Chair)
Jo Anne Meier-Marquis (Catering)
Sujin Horwitz (Research and Travel Subcommittee Chair)
Catherine Barber (Publicity)
Rogelio Garcia - Contreras
Livia Bornigia
Shuoyang Zhang
Loan Nguyen
Nicholas Zaibaq

The Undergraduate Research Committee thanks members of the staff of Public Affairs, Institutional Advancement, the General Office, Facilities Operations, Media Services and Publications for their assistance in planning and preparing for this event.

Program cover designed by Sandy Solis, Marionette Mitchell and Brenda Cooper, program designed and produced by Maury Harris.

And, as it should be, we thank the students f
or their hard work conducting their research
projects and their professors for their guidance throughout the process.