CHRONOLOGICAL SUMMARY

MONDAY AFTERNOON, MARCH 31, 2014

RESEARCH INSTITUTE PRESENTATIONS
Monday, 31 March 3:30 PM – 4:30 PM
Allen Chapman Activity Center Level 2: Great Hall B

Institute of Nanotechnology:
NANOSCALE SCIENCE AND ENGINEERING FOR ENERGY HARVESTING AND STORAGE

Institute of Trauma, Adversity, and Injustice:
COMMUNITY ENGAGED RESEARCH, EDUCATION, AND SERVICE

MONDAY EVENING, MARCH 31, 2014

KEYNOTE LECTURE
STORM KINGS: THE UNTOLD HISTORY OF AMERICA'S FIRST TORNADO CHASERS

Presented by Lee Sandlin
Author of *Wicked River*
Monday, 31 March 7:00 PM - 8:00 PM
Allen Chapman Activity Center Level 2: Great Hall B

TUESDAY MORNING, APRIL 1, 2014

CONTRIBUTED PAPERS: BIOLOGICAL SCIENCES I
Tuesday, 1 April 8:25 AM – 11:55 AM
Allen Chapman Activity Center Level 2: Great Hall B

8:25 AM Urquhart, Melissa
THE EFFECT OF PALM COOLING ON BLOOD LACTATE VALUES PRODUCED FROM RESISTIVE EXERCISE

8:45 AM Rankin, Justin
OBSERVATIONS OF FLIGHT INITIATION DISTANCE WITH REGARD TO ROAD SPEED LIMIT IN OKLAHOMAN BIRDS

9:05 AM Potts, Jolee
THE EFFECT OF FLORAL SYMMETRY ON POLLINATION OF BIDENS ARISTOSA

9:25 AM Gabriel, Kristen
DOOR OPENING: AN ECOLOGICAL STUDY OF HUMAN BEHAVIOR

9:45 AM Steffen, Michael
A NEW SPECIES OF PAEDOMORPHIC SALAMANDER FROM THE OUACHITA MOUNTAINS

10:05 AM BREAK

10:15 AM Keane, Kristopher
FEMALE PREFERENCE IN THE WILD

10:35 AM Golden, Timothy
THE EVOLUTION OF STRIDULATION IN THE ANTS

10:55 AM Martin, Samuel
BODY AND RANGE SIZE EVOLUTION IN NORTH AMERICAN MINNOWS

11:15 AM Phillips, John
PHYLOGEOGRAPHY AND CONSERVATION GENETICS OF CAVE-DWELLING (TROGLOBITIC) SALAMANDERS

11:35 AM Perry, Rachel
THE EFFECT OF PALM COOLING ON CARDIOVASCULAR INDICES

SPECIAL TOPIC SESSION: DETECTION AND INDENTIFICATION, USING MOLECULAR METHODS, OF FREE-LIVING PATHOGENIC AMOEBA FROM RECREATIONAL WATERS IN NORTHEAST OKLAHOMA

Tuesday, 1 April, 2014 10:00 AM – 11:50 AM
Allen Chapman Activity Center Level 2: Alcove

10:00 AM Hendrickson, Jordan
AN ECOLOGICAL SURVEY OF *NAEGLERIA FOWLERI*, *BALAMUTHIA MANDRILLARIS*, AND *ACANTHAMOEBA* SPP. IN TULSA AREA SPLASHPADS

10:20 AM Neil, Austin
NAEGLARIA FOWLERI IN OKLAHOMA FRESHWATER

10:40 AM On, Camay
RESEARCH STUDY OF *NAEGLERIA FOWLERI* FROM SALT CREEK AT LAKE KEYSTONE

11:00 AM BREAK

11:10 AM Abraham, Aaron
DETECTION OF *NAEGLERIA FOWLERI*, THE CAUSATIVE AGENT OF PRIMARY AMEBIC MENINGOENCEPHALITIS, AND OTHER PATHOGENIC AMOEBA FOUND IN GRAND LAKE, OK, USING PCR FOR DNA AMPLIFICATION.

11:30 AM Pook, Sarah
A SURVEY OF THE PATHOGENIC AMOEBA POPULATION OF TAYLOR FERRY

CONTRIBUTED PAPERS: ELECTRICAL ENGINEERING, SOCIOLOGY, AND ECONOMICS

Tuesday, 1 April 10:15 AM – 12:35 PM
Allen Chapman Activity Center Level 2: Chouteau

10:15 AM Johnson, Trokon and Bennett Krack
MODELING AND ANALYSIS FOR A NANOBATTERY CHARGING SYSTEMS

10:35 AM LeClear, McKenna
SAVAGES AND SPIRITUALISTS: AN EXAMINATION OF STEREOTYPICAL IMAGERY IN NATIVE AMERICAN AND TIBETAN CULTURES

10:55 AM BREAK

11:15 AM Stritzel, Haley
LIMITS OF ASSISTANCE: THE PERSPECTIVES OF SOCIAL SERVICE EMPLOYEES

11:35 AM Christianson, Deanna
ATHEISTS ON A COLLEGE CAMPUS: CONSTRUCTING IDENTITY THROUGH BORDER WORK

11:55 AM Proctor, J. Christopher
ANALYZING DISPARATE ECONOMIC OUTCOMES IN POLAND AND UKRAINE IN THE POST-SOVIET ERA

12: 15 PM Christianson, Deanna
LOCAL ECONOMIC DEVELOPMENT PRACTICES AND URBAN NEOLIBERALIZATION

TUESDAY AFTERNOON, APRIL 1, 2014

SPECIAL TOPIC SESSION: FOODBORNE PATHOGENS

Tuesday, 1 April, 2014 1:00 PM – 3:00 PM
Allen Chapman Activity Center Level 2: Chouteau

1:00 PM Alharpi, Muna
PREVALENCE OF THE FOODBORNE PATHOGEN *STAPHYLOCOCCUS AUREUS* IN RETAIL FRESH MUSHROOMS SOLD IN TULSA, OKLAHOMA

1:20 PM Marasini, Daya

MOLECULAR CHARACTERIZATION OF LARGE PLASMIDS IN *CAMPYLOBACTER* SPP. ISOLATED FROM VARIOUS RETAIL MEATS

1:40 PM Subhan Neyaz, Leena
PFGE AS A TOOL TO DETECT LARGE PLASMIDS IN *STAPHYLOCOCCUS AUREUS* ISOLATED FROM RETAIL MEATS

2:00 PM BREAK

2:20 PM Gad, Ahmed
DIVERSITY OF EXTREMOPHILES AT THE GREAT SALT PLAINS OF OKLAHOMA

2:40 PM Lacey, Kelly
ANTI-MRSA ACTIVITY OF BACTERIA ISOLATED FROM EXTREME ENVIRONMENTS

SPECIAL TOPIC SESSION: CONTEMPORARY ISSUES IN EDUCATION POLICY AND PRACTICE

Tuesday, 1 April, 2014 1:00 PM – 2:50 PM
Allen Chapman Activity Center Level 2: Great Hall B

1:00 PM Olson, Luke
PROMOTING PERSONAL AUTONOMY: REEXAMINING THE CREATIONISM/EVOLUTION DEBATE

1:20 PM Robinson, Shannon
THE CULTURAL CODE-SWITCHING CONUNDRUM: TEACHING CULTURAL CODE-SWITCHING WITHOUT VIOLATING LIBERAL NEUTRALITY

1:40 PM Tatum, Raven
SCHOOL UNIFORMS: CURTAILING AUTONOMY FOR THE SAKE OF AUTONOMY

2:00 PM BREAK

2:10 PM Wang, Nian
THE RELATIONSHIP BETWEEN PARENTAL INVOLVEMENT AND BELIEFS AND CHILDREN'S ACADEMIC DEVELOPMENT IN URBAN CHINESE FAMILIES

2:30 PM Yang, Yalin
A COMPARATIVE STUDY OF CLASSROOM DISCOURSE IN DIFFERENT AGE GROUPS: CHINESE LANGUAGE TEACHING AND LEARNING IN AN AMERICAN ELEMENTARY SCHOOL

SPECIAL TOPIC SESSION: THE EUKARYOTIC MICROBE – APPLIED AND BASIC RESEARCH

Tuesday, 1 April, 2014 3:00 PM – 5:00 PM
Allen Chapman Activity Center Level 2: Alcove

3:00 PM Pegg, Caitlin
THE GREEN ALGAE: AN INVESTIGATION OF PHYLOGENY INFERRED FROM RIBOSOMAL RNA GENE SEQUENCE AND STRUCTURAL DATA

3:20 PM Kuiper, Joseph
THE INTERNAL TRANSCRIBED SPACER ONE: PRIMARY AND SECONDARY STRUCTURE ANALYSIS

3:40 PM Alanagreh, Lo'ai
NEW INSIGHTS INTO MICROBIAL DIVERSITY: THE *HAEMATOCOCCUS PLUVIALIS* MODEL

4:00 PM BREAK

4:20 PM Myers, Jessie
UTILIZING ALGAE-BACTERIA CONSORTIA FOR WASTEWATER BIOREMEDIATION

4:40 PM Whittaker, Matthew
IS MITOCHONDRIAL EXPULSION A COMMON PHENOMENA IN PROTOZOA?

CONTRIBUTED PAPERS: COLLEGE POSTER SESSION/UNIVERSITY OF OKLAHOMA-TULSA RESEARCH FORUM

Tuesday, April 1 1:00 PM - 4:00 PM
OU-Tulsa Schusterman Learning Center Founders Hall

ENGINEERING AND APPLIED RESEARCH

1. Chong, Alex
   AN INVESTIGATION OF THE USE OF COPPER(I) TRIFLATE CATALYZING OPTIMUM ENAMINONE SYNTHESIS

2. Ivanoff, Douglas
   FRACTURE TOUGHNESS MEASUREMENT WITH A TDCB SPECIMEN

3. Johnson, Trokon
   FPGA SOLUTIONS FOR THE OPTIMIZATION OF AFNI PROCESSING

4. Dierker, Logan, Jarett Martin, Andrew Chandler, Braeden Williams, Joseph Shook, Caleb Roach, Ken Martin and Grant Volle
   DESIGNING, PROTOTYPING AND BUILDING A ROBOT SO LITTLE LIGHT HOUSE CHILDREN CAN PLAY IN A SANDBOX

5. Taylor, Samuel, Colin Hicks, Braeden Williams, Charles Bales, Hana Dickens, Joey Clancy, Caleb Roach, Scott Rainwater, Dana Swift, Suqin Lin, and J.C. Diaz
   THE CONTROL STRUCTURE FOR A ROBOT THAT ALLOWS LITTLE LIGHT HOUSE CHILDREN TO PLAIN IN A SANDBOX

6. Lin, Suqin
   MOBILE HEXAPOD ROBOT

7. Rake, Nathanael
   INVESTIGATION OF AUTONOMOUS BIPEDAL ROBOT DESIGN

8. Darunkar, Bhagyashri Arun
   BRAIDED SINGLE-STAGE PROTOCOL FOR QUANTUM-SECURE COMMUNICATION

COMMUNITY SERVICE/OUTREACH

9. Milton, Robin M.
   DESIGN AND IMPLEMENTATION OF REFERENCE CARDS TO AVOID LOOK-ALIKE, SOUND-ALIKE MEDICATION ERRORS

10. Shelton, Jessica L
    OU-TULSA SUSTAINABLE LANDSCAPES: DESIGNING FOR PLACE

11. Al Nairab, Salma Hammad
    TULSA REGIONAL FARMERS MARKET

12. Wildermuth, Glena Gray
    PAST, PRESENT AND FUTURE OF SOUTH ADAIR STREET IN DOWNTOWN PRIOR CREEK

BIOMEDICAL RESEARCH

13. Gandhapudi, Siva K
    IL18 INDUCED ENHANCEMENT OF CD117 AND CD127 EXPRESSION ON EXPANDING THYMOCYTES

14. Mallios, Alexandros
    LASER ATHERECTOMY - LONG TERM CLINICAL RESULTS FOR THE TREATMENT OF PERIPHERAL ARTERIAL DISEASE

15. Chanda, Rama Krishna
    PHYSICIAN INVOLVEMENT IN DECISION MAKING FOR CHOICE OF EPIDURAL ANALGESIA DURING LABOR

16. Gkotsis, George
    EVALUATION AND TREATMENT OF HIGH FLOW ARTERIOVENOUS FISTULAS AFTER SUCCESSFUL RENAL TRANSPLANTATION

17. Braun, Sandra Emmy
    INCIDENCE OF CHLAMYDIA AMONG DIFFERENT AGE AND ETHNIC GROUPS

18. Braun, Sandra Emmy
    GONORRHEA INCIDENCE AMONG VARIOUS AGE AND ETHNIC GROUPS

19. Gupta, Kriti
    MANAGEMENT OF PREDIABETES: LIFESTYLE MODIFICATIONS VS MEDICAL NUTRITION THERAPY VS METFORMIN

20. Jaiswal, Deepna

SURVEYING RESIDENT PHYSICIANS KNOWLEDGE AND PRACTICE OF THE 2013 UNITED STATES PREVENTIVE TASK FORCE GUIDELINES ON HEPATITIS C SCREENING

21. Pack, Christopher Carl
    EVALUATION OF THE BARRIERS TO PATIENT USE OF GLUCOMETER CONTROL SOLUTIONS

SOCIAL AND BEHAVIORAL RESEARCH

22. Affan Rabbani
    OBSTETRIC CARE IN RURAL AND URBAN OKLAHOMA

23. Amy Buck
    EXAMINING OUTCOMES OF SERVICE DOG PLACEMENT FOR INDIVIDUALS WITH MOBILITY CHALLENGES

24. Stanley Nwokenkwo
    DIAGNOSIS AND MANAGEMENT OF ANXIETY IN A RESIDENT CLINIC

25. Jedediah Eugene Bragg
    VIEWS ON SOCIAL WORK POST INTERPROFESSIONAL EDUCATION AT THE UNIVERSITY OF OKLAHOMA

26. Lauren Bull
    COMANCHE PARK RESIDENT HEALTH SURVEY

27. Lindsay M. Fry-Geier
    SCHOOL AGE CHILDREN OF INCARCERATED PARENTS: THE EFFECTS OF ALTERNATIVE CRIMINAL SENTENCING

28. Daniel Dwight Regouby
    FACTOR ANALYSIS OF NEW MEASURE OF ORGANIZATIONAL CULTURE

29. Eduardo Estevis
    DIFFERENTIAL PATTERNS OF NEUROPSYCHOLOGICAL FUNCTIONING AMONG DEPRESSED INPATIENTS

30. Julian T. Frazier
    "LONGITUDINAL ASSESSMENT OF INFLAMMATION, COGNITIVE PERFORMANCE AND MOOD REGULATION DURING COLLEGIATE ATHLETIC SEASON."

31. Tom Gaus
    A COMPARISON OF DEPRESSION SYMPTOMS AND COPING STRATEGIES AMONG ATHLETES AND NON-ATHLETES

32. Montega Jordan
    THE IMPACT OF GENDER ON THE RELATIONSHIP BETWEEN MENTAL TOUGHNESS AND ATHLETE STRESS IN A SAMPLE OF ELITE

33. Daniel V. Simonet

PLEASURE WORKING WITH YOU: PERSONALITY, STRESS, AND SATISFACTION IN DYADIC TEAMS

EVIDENCE – BASED CLINICAL REVIEWS

34. Scholz, Amy Cathleen
    HOW EFFECTIVE IS A GLUTEN-FREE CASEIN-FREE DIET: A CRITICALLY APPRAISED TOPIC

35. Odle, Heather LeAnn
    CONSTRAINT-INDUCED MOVEMENT THERAPY APPEARS TO BENEFIT CHILDREN WITH HEMIPLEGIC CEREBRAL PALSY

36. Upton, Leah
    WHAT CONSTIPATION MANAGEMENT APPROACHES ARE MOST EFFECTIVE FOR CHILDREN OVER 3 YEARS?

37. Fast, Peter
    WHEN SHOULD MUSCULOSKELETAL ULTRASOUND REPLACE MRI IN DIAGNOSING ACUTE MENISCAL TEARS?

38. Gilmore, Jesicah
    WHEN SHOULD YOU CONSIDER IMPLANTED NERVE STIMULATORS FOR LOWER BACK PAIN?

39. Ghosh, Sonali
    WHAT IS THE BEST TREATMENT FOR TINEA CAPITIS IN AN ADULT?

NATURAL SCIENCES

40. Banjade, Bharat
    GEOCHEMISTRY OF ATOKA SANDSTONE AND MUDROCK FROM THE SOUTHERN OUACHITAS OF OKLAHOMA: IMPLICATION FOR PROVENANCE

41. Bellovich, Ian
    DIVERSITY OF *HAEMATOCOCCUS PLUVIALIS*: MULTIGENIC LINES OF EVIDENCE

42. Castaneda, Maria
    SYNTHESIS OF ENAMINONES UTLIZING COPPER CATALYSTS

43. Kasmani, Moujtaba
    INVESTIGATION OF RECOMBINANT PROTEIN SYNTHESIS UNDER OXIDATIVE CONDITIONS

44. Xin, Lai
    UPPER ALBIAN CHEMOSTRATIGRAPHY OF COMANCHE SHELF INTERIOR WASHITA GROUP, SOUTHWEST TEXAS

45. Lopez Quiroz, Erika
    COPPER CATALYZED SYNTHESIS OF ENAMINONES

46. Rajagopal, Nisha
    SYNTHESIS OF ENAMINONES USING COPPER CATALYSTS

47. Rightler, Amanda
    INVESTIGATING THE TOXICITY OF NANOPARTICLE QUANTUM DOTS

48. Schmauch, Marissa
    INDUCER SYNTHESIS AND ASSAY

49. Wang, Yulun
    CHEMOSTRATIGRAPHY OF UPPER ALBIAN (LOWER CRETACEOUS) COMANCHE SHELF MARGIN

WEDNESDAY MORNING, APRIL 2, 2014

SPECIAL TOPIC SESSION: RESEARCH ABROAD

Wednesday, April 2, 2014 — 8:15 AM – 10:35 AM
Allen Chapman Activity Center — Level 2: Alcove

8:15 AM Hoyt, Jordan
MACRO-SCALE BUBBLES FOR ALIGNING CARBON NANOTUBES

8:35 AM Tindle, John
UNDERREPRESENTATION OF EELS IN CORAL REEF FISH SURVEYS

8:55 AM Leclear, McKenne
BHIKSHUNIS AND BREAKING BARRIERS: THE CHANGING STATUS OF WOMEN IN MONASTIC LIFE

9:15 AM BREAK

9:35 AM DeCook, Ryan*, Weston Kightlinger*, Michael Tompkins and Daniel Chang
WATER DISTRIBUTION ENHANCEMENT IN COTANI, BOLIVIA

9:55 AM Proctor, J. Christopher
INEQUALITY IN POST-TRANSITION POLAND

10:15 AM Cooley, Katharine
LIFE WITH LEMURS: A STUDY ON THE BEHAVIOR, DIET AND HOME RANGE OF THE GREATER BAMBOO LEMUR (PROLEMUR SIMUS)

CONTRIBUTED PAPERS: PETROLEUM ENGINEERING AND GEOSCIENCES

Wednesday, April 2, 2014 — 9:00 AM – 11:00 AM
Allen Chapman Activity Center — Level 2: Great Hall B

9:00 AM Dokhani, Vahid
THE EFFECTS OF MOISTURE TRANSPORT ON WELLBORE STABILITY IN SHALE FORMATIONS

9:20 AM Chen, Yuanhang

A NOVEL APPROACH IN LOCATING LOSS ZONE DURING DRILLING WITH DISTRIBUTED TEMPERATURE MEASUREMENT

9:40 AM BREAK

10:00 AM Akbari, Babak
DRILLING AND DRILL BITS

10:20 AM Zhang, Feifei
APPLICATION OF REAL-TIME SOLIDS MONITORING IN WELL DESIGN, ANNULUS PRESSURE CONTROL AND MANAGED PRESSURE DRILLING

10:40 AM El-Waraky, Mohamed
ORGANIC BIOMARKER CLASSIFICATION OF OIL FAMILIES IN SOUTHERN OKLAHOMA

CONTRIBUTED PAPERS: MECHANICAL ENGINEERING I

Wednesday, April 2, 2014 9:30 AM – 11:50 AM
Allen Chapman Activity Center Level 2: Chouteau

9:30 AM Mahdavi, Marzieh
EXPERIMENTAL INVESTIGATION OF EROSION IN HIGH CONCENTRATION SLURRIES

9:50 AM Vieira Uzcategui, Ronald
SAND EROSION MODELING FOR HORIZONTAL ANNULAR FLOW AND LOW-LIQUID LOADING CONDITIONS

10:10 AM Arabnejad Khanouki, Hadi
CALCULATION OF TURBULENT BOUNDARY LAYER FOR A SLOT JET IMPINGEMENT ON A FLAT SURFACE

10:30 AM BREAK

10:50 AM Hubb, Andrew
CRACK PROPAGATION ANALYSIS OF COILED TUBING FATIGUE TESTS

11:10 AM Kiani, Mahdi
ANALYTICAL AND EXPERIMENTAL INVESTIGATION OF FATIGUE IN HIGH CYCLE PUMP COMPONENTS

11:30 AM Ishak, Joanne
FATIGUE LIFE IMPROVEMENT VIA AUTOFRETTAGE: OVERVIEW AND NUMERICAL SIMULATION

WEDNESDAY AFTERNOON, APRIL 2, 2014

CONTRIBUTED PAPERS: GENERAL HUMANITIES

Wednesday, April 2, 2014 1:15 PM – 4:45 PM
Allen Chapman Activity Center Level 2: Great Hall B

1:15 PM Johnson, Casey
TATE BRADY IN THE 21ST CENTURY

1:35 PM Ward, Arley
ALLOYS OR ALLIES?: WORLD WAR II PRESS COVERAGE AND NATIVE AMERICANS

1:55 PM Kunkel, Joshua
THEMES OF AMERICAN MANLINESS IN WWI FRANCE

2:15 PM BREAK

2:35 PM Provencher, Jessica
THE BRETON PEASANT: THE FEMALE PEASANT AS A SYMBOL OF FRANCE

2:55 PM Bryant, Laura
FEMALE EFFIGY BOTTLES OF THE CENTRAL MISSISSIPPI RIVER VALLEY

3:15 PM Hennigan, Christian
LOVE IN THE MIDST OF NARRATIVES: EMBRACING THE FICTION OF PERSONAL IDENTITIES WITHIN ALAIN RESNAIS'S HIROSHIMA MON AMOUR

3:35 PM BREAK

3:45 PM Kham, Mary
NATURAL PROCESSES IN THE PHONOLOGICAL ACQUISITION OF BURMESE LEARNERS OF ENGLISH

4:05 PM Dunn, Clarissa
THE DEVIL IN THE DETAILS: DEBUNKING THE MYTH OF THE SALEM WITCHCRAFT TRIALS

4:25 PM Tindle, James
NECESSITY IS THE MOTHER OF IMPROVISATION: USING TRENCHES TO COPE WITH A UNIQUE WAR

CONTRIBUTED PAPERS: PSYCHOLOGY

Wednesday, April 2, 2014 1:00 PM – 4:20PM
Allen Chapman Activity Center Level 2: Chouteau

1:00 PM Lau, Lily
DETECTION OF COACHED NEUROPSYCHOLOGICAL DYSFUNCTION: AN EXPERIMENT REGARDING MILD CLOSED HEAD INJURY

1:20 PM Cook-Reynolds, Nigel
THE INFLUENCE OF NEWS HEADLINES ON ATTITUDES AND BEHAVIORS TOWARD POVERTY

1:40 PM Güereca, Yvette
DOES PLACEBO ANALGESIA MODULATE PAIN SIGNALING AT THE SPINAL LEVEL?: A PILOT STUDY

2:00 PM Marzouk, Samuel
CORRELATES OF DRUG USE AMONG WOMEN DURING TREATMENT: A PROSPECTIVE STUDY

2:20 PM BREAK

2:40 PM Harikumar, Amritha
NEUROPSYCHOLOGICAL CORRELATES OF ATYPICAL DEPRESSIVE SYMPTOMS AMONG OUTPATIENTS

3:00 PM Miller, Ashley
DETECTION OF POOR EFFORT IN NEUROPSYCHOLOGICAL ASSESSMENT

3:20 PM Walser, Benjamin
CAREER INTERESTS AND EMOTIONAL INTELLIGENCE OF ADULTS WITH ASPERGER'S SYNDROME

3:40 PM Brown, Cameron
PERSONALITY TRAIT-BASED DIFFERENTIAL REWARD PREFERENCE

4:00 PM Creedon, Patrick
THE DANGERS OF MANIPULATION: THE RELATIONSHIP BETWEEN THE DARK TRIAD AND EMOTIONAL INTELLIGENCE

SPECIAL TOPIC SESSION: RAINFOREST ECOLOGY

Wednesday, April 2, 2014 1:00 PM – 4:40 PM
Allen Chapman Activity Center Level 2: Alcove

1:00 PM Hendrickson, Jordan
SODIUM PREFERENCES IN TROPICAL ANTS

1:20 PM Budzyn, Charles
FACTORS AFFECTING LOCAL DENSITIES OF PARASITIC FLIES

1:40 PM Moorman, Rebekah
TESTING THE MEMORY OF MALE *NYSSODESMUS PYTHON*

2:00 PM Pegg, Caitlin
THE PROTECTIVE EFFECT OF FALSE-EYESPOTS IN LEPIDOPTERAN CATERPILLAR MODELS

2:20 PM Henke, Jonathan
THE EFFECT OF SUNLIGHT AVAILABILITY ON THE PREVALENCE OF LEAF ENDOPHAGY

2:40 PM Huffman, Jill
CASTE DIFFERENCES IN *ATTA CEPHALOTES* IN ELECITING ALARM RESPONSES FOM NESTMATES

3:00 PM BREAK

3:20 PM Wright, Alec
TESTING THE "DEAR ENEMY EFFECT" IN THE LEAFCUTTER ANT *ATTA CEPHALOTES*

3:40 PM Tawaklna, Kenan
THE ROLE OF MINIMS IN LEAF CUTTER ANT TRAIL DEFENSE

4:00 PM Miller, Nathan
HELICONIA LATISPATHA PHYTOTELMATA AS MODELS OF SUCCESSION

4:20 PM McHenry, Teresa
COMPARATIVE COMPOSITION OF PHYTOTELMATA COMMUNITIES FROM BROMELIAD AND CALATHEA

SPECIAL TOPIC SESSION: FACTORS THAT AFFECT ACADEMIC PERFORMANCE IN K-12 SCHOOLS

Wednesday, April 2, 2014 5:00 PM – 6:50 PM
Allen Chapman Activity Center Level 2: Chouteau

5:00 PM Darling, Alexandra
THE RELATIONSHIP BETWEEN POLICY ENFORCEMENT OF CYBERBULLYING IN SCHOOLS AND STUDENT BEHAVIOR

5:20 PM Graham, Antonio
THE EFFECTS OF MENTORING PROGRAMS HAVE ON AFRICAN AMERICAN MALE'S TEENS GPA AND SCHOOL INVOLVEMENT.

5:40 PM Johnson, Janet
THE EFFECTS OF FAMILY DYNAMICS ON COURSE CHOICE

6:00 PM Break

6:10 PM Sandberg, Jill
THE RELATIONSHIP BETWEEN PARENTAL INVOLVEMENT AND ACADEMIC ACHIEVEMENT

6:30 PM Martin, Blake
THE RELATIONSHIP BETWEEN PARENT INVOLVEMENT, STUDENT ACADEMIC ACHIEVEMENT AND STUDENT MOTIVATION

THURSDAY MORNING, APRIL 3, 2014

CONTRIBUTED PAPERS: BIOCHEMISTRY

Thursday, April 3, 2014 — 8:30 AM – 10:20 AM
Allen Chapman Activity Center — Level 2: Great Hall B

8:30 AM Chancellor, Blake
A NOVEL ROLE FOR THE TUMOR SUPPRESSOR P27 IN EARLY-STAGE CANCER

8:50 AM Stranford, Devin
CHARACTERIZATION OF A NOVEL INHIBITOR OF EVOLUTIONARILY DISTINCT LUCIFERASES

9:10 AM Mahayni, Abdulah
ROLE FOR THE TUMOR SUPPRESSOR PROTEIN P27KIP1 IN CANCER PROGRESSION

9:30 AM BREAK

9:40 AM Thomas, Kevin
DISCOVERY OF NOVEL PROTEASOME THERAPEUTICS FROM AN ENAMINONE LIBRARY

10:00 AM Craig, Christy
BLOOD LACTATE CHANGES PRODUCED BY B-ALANINE SUPPLEMENTATION AND REPETITIVE SUPRAMAXIMAL EXERCISE

CONTRIBUTED PAPERS: PHYSICS AND APPLIED MATHEMATICS

Thursday, April 3, 2014 — 10:00 AM – 12:00 PM
Allen Chapman Activity Center — Level 2: Chouteau

10:00 AM Puhl, Maria

DIFFERENTIATING AUTISM SPECTRUM DISORDER AND NEURO-TYPICAL SUBJECTS USING L1 REGULARIZED LOGISTIC REGRESSION ANALYSIS OF RESTING-STATE FUNCTIONAL CONNECTIVITY DATA

10:20 AM Mahayni, Abdulah
CHOLERA: UNDERSTANDING MULTI-SEROTYPE DISEASE DYNAMICS THROUGH MATHEMATICAL MODELING

10:40 AM BREAK

11:00 AM Xue, Wenhua
THE ROLE OF HYDROGEN IN CATALYTIC REACTIONS FOR BIO-OIL PRODUCE

11:20 AM Brown, Timothy
ZINC OXIDE EPITAXIAL GROWTH BY RF SPUTTERING FOR FERROELECTRIC-ZNO BILAYERS

11:40 AM Liu, Yingdi
COAL SWELLING AND SEQUESTRATION OF CARBON DIOXIDE: THEORY AND MECHANISM

SPECIAL TOPIC SESSION: FACTORS THAT AFFECT OVERALL PERFORMANCE IN SCHOOLS

Thursday, April 3, 2014, 2014 10:00 AM – 11:30 AM
Allen Chapman Activity Center Level 2: Alcove

10:00 AM Rudy, Rachel
THE RELATIONSHIP BETWEEN ATHLETIC MOTIVATION AND ACADEMIC ACHIEVEMENT.

10:20 AM Balestrieri, Joe
THE RELATIONSHIP BETWEEN PHYSICAL ACTIVITY BREAKS AND ELEMENTARY STUDENTS' STANDARDIZED TEST SCORES

10:40 AM Break

10:50 AM Black, Kauri
THE RELATIONSHIP BETWEEN COLLEGE PREPARATION, ACADEMIC PREPARATION BETWEEN COLLEGE STUDENT ATHLETES VS. NON-STUDENT ATHLETES

11:10 AM Gove, Scott
THE RELATIONSHIP BETWEEN FRATERNITY MEMBERSHIP/NON-AFFILIATION, IDENTITY DEVELOPMENT, AND HYPER-MASCULINE BEHAVIOR

THURSDAY AFTERNOON, APRIL 3, 2014

CONTRIBUTED PAPERS: BIOLOGICAL SCIENCES II

Thursday, April 3, 2014 1:00 PM – 5:40 PM
Allen Chapman Activity Center Level 2: Great Hall B

1:00 PM Mohanty, Rashmi Prava
MOLECULAR TOOLS FOR THE ANALYSIS OF AIRBORNE JUNIPERUS POLLEN

1:20 PM Asfaw, Seniet
CHARACTERIZATION OF A POSSIBLE NEW VIRUS INFECTING SQAUSH IN FLORIDA

1:40 PM Xing, Alvin
METHODS FOR RAGWEED POLLEN ANALYSIS

2:00 PM Miller, Nathan
COMPARISON OF ENDOPHYTE AND EPIPHYTE COMMUNITIES IN CERCIS CANADENSIS

2:20 PM BREAK

2:40 PM West, Sasha
AEROBIOLOGY OF *JUNIPERUS ASHEI* POLLEN IN SONORA, TEXAS FIELD SITE

3:00 PM Ali, Ijaz
RECENT OUTBREAKS OF *DENGUE* VIRUS SEROTYPES IN PAKISTAN

3:20 PM Longtine, Charles
PARTIAL SEQUENCES OF TWO NEW ISOLATES OF PAPAYA RINGSPOT VIRUSES

3:40 PM Hice, Stephanie
CHARACTERIZATION OF SWITCHGRASS DEGRADING THERMOPHILIC ACTINOMYCETES FOR BIOFUEL PRODUCTION

4:00 PM BREAK

4:20 PM Hannebaum, Stacy
POPULATION GENETICS OF THE WHITE-FOOTED MOUSE, *PEROMYSCUS LEUCOPUS*, IN HUMAN MODIFIED LANDSCAPES

4:40 PM Reeder, Raye

A CORRELATION BETWEEN WINTER METEOROLOGICAL CONDITIONS AND SPRING POLLEN CONCENTRATIONS IN TULSA, OKLAHOMA

5:00 PM Rao, Meghana
A 15 YEAR STUDY OF AIRBORNE ALTERNARIA CONCENTRATIONS IN TULSA

5:20 PM Wright, Alec
EXPLORING MITOCHONDRIAL HETEROPLASMY IN THE HUMAN BED BUG *CIMEX LECTULARIS*

CONTRIBUTED PAPERS: MECHANICAL ENGINEERING II

Thursday, April 3, 2014 1:00 PM – 4:40 PM
Allen Chapman Activity Center Level 2: Chouteau

1:00 PM Perera, Gamage Amila
ANALYZING THE EFFECTS OF ROTATION ON AUTOMOBILE POST COLLISION TRAJECTORIES

1:20 PM Parsi, Mazdak
CHARACTERIZING SLUG/CHURN MULTI-PHASE FLOW

1:40 PM Riojas, Katherine
THE MAGIC RIDER: A MOBILITY PLATFORM FOR CHILDREN WITH DISABILITIES

2:00 PM BREAK

2:10 PM Laney, Samuel
SYMMETRICAL CLOSE PACKING OF CYLINDRICAL OBJECTS

2:30 PM Burnworth, Christopher
THERMAL PROPERTIES OF THERMOSET POLYMERS IN THE PRESENCE OF MICROENCAPSULATED FLUIDS

2:50 PM Rezaei Aderyani, Somayeh
THERMAL GRID DEVICE

3:10 PM BREAK

3:20 PM Mansouri, Amir
NUMERICAL INVESTIGATION OF DROPLET- DROPLET COALESCENCE AND DROPLET-INTERFACE COALESCENCE

3:40 PM Fahar, Maryam
CONCENTRATION MEASUREMENT TECHNIQUE OF BINARY LIQUIDS CONTAINING COLLOIDAL SUSPENSION OF NANOPARTICLES

4:00 PM Telang, Chinmay
SPECTRAL OPTICAL PROPERTIES OF THERMORESPONSIVE SPHERICAL CORE SHELL NANOPARTICLES

4:20 PM Zhao, Tianyu
STUDIES ON INCREMENTAL STEP TEST

SPECIAL TOPIC SESSION: MANAGING THE WORK-NONWORK INTERFACE TO MAINTAIN EMPLOYEE HEALTH AND WELL-BEING

Thursday, April 3, 2014, 2014 2:00 PM – 4:40 PM
Allen Chapman Activity Center Level 2: Alcove

2:00 PM Parker, Kelsey
EXAMINING THE INFLUENCES OF DISTRESS AND EUSTRESS ON TIREDNESS DURING THE WORKDAY

2:20 PM Fonseca, Rose
WORK-SCHOOL CONFLICT AND WORK-SCHOOL FACILITATION

2:40 PM Curtis, Shane
WORK-SCHOOL CONGRUENCE AND JOB BEHAVIORS OF COLLEGE STUDENTS

3:00 PM Zwierko, Beth
TESTING CONSERVATION OF RESOURCES THEORY: THE ROLE OF EXTRAVERSION AND NEUROTICISM

3:20 PM BREAK

3:40 PM Hoover, Coty
INVESTIGATING THE EFFECTIVENESS OF WEEKEND RECOVERY

4:00 PM Wood, Kaylen
AFFECTIVE DISPOSITIONS AND ITS EFFECTS ON THE WEEKEND RECOVERY PROCESS

4:20 PM Zwierko, Beth
THE ROLE OF COMMUNICATION CONTENT IN WEEKEND RECOVERY OF SELF-REGULATORY RESOURCES

FRIDAY MORNING, APRIL 4, 2014

CONTRIBUTED PAPERS: CHEMISTRY

Friday, April 4, 2014 8:00 AM – 10:30 AM
Allen Chapman Activity Center Level 2: Great Hall B

8:00 AM Trafford, Mitchell
SUSTAINABLE SYNTHESIS AND CONTINUOUS PROCESSING WITH SUZUKI-MIYAURA CROSS-COUPLING

8:20 AM Brachtenbach, Travis
OBSERVATION OF STRAINED ALKENES AND ALKYNES AS CYSTEINE SULFENYLATION PROBES

8:40 AM Moorman, Rebekah
HALIDE INHIBITION IN THE COPPER CATALYZED AZIDE ALKYNE CYCLOADDITION

9:00 AM BREAK

9:10 AM Jones, Gregory
STRAINED ALKYNES AS CYSTEINE PROTEASE INHIBITORS

9:30 AM Pegg, Caitlin
FACILE PREPARATION OF AMMONIUM ALGINATE-DERIVED NANOFIBERS CARRYING THERAPEUTIC PAYLOADS

9:50 AM Koduri, Naga
SYNTHESIS OF BIOACTIVE ENAMINONES VIA COPPER CARBENOID CHEMISTRY

10:10 AM Baghernejad, Lida
THE PRODUCTION OF FUNCTIONAL, ELECTROSPUN, CELLULOSIC NANO-MATERIALS AND THEIR APPLICATIONS

CONTRIBUTED PAPERS: COMPUTER SCIENCE AND ELECTRICAL ENGINEERING

Friday, April 4, 2014 9:20 AM – 11:40 AM
Allen Chapman Activity Center Level 2: Alcove

9:20 AM Marshall, Allen
A DISTRIBUTED SOFTWARE SYSTEM FOR ADAPTIVE COORDINATION OF ISR ASSETS

9:40 AM Crawford, Charles
EFFECT OF OPINION-BASED TRUSTING DECISIONS ON SOCIAL NETWORKS

10:00 AM Lareau, Caleb
A MIXED-MODEL OF GENE EXPRESSION IN PATIENTS WITH DEPRESSION TREATED WITH DEEP BRAIN STIMULATION IMPLICATES AUTOPHAGY AND ANGIOGENESIS

10:20 AM BREAK

10:40 AM Weber, Victoria
ACHIEVING AUTONOMOUS FLIGHT WITH QUADCOPTERS

11:00 AM Douglas, Sara
MACHINE LEARNING ANALYSIS OF DIFFERENTIAL RESTING-STATE FUNCTIONAL-MRI NETWORK CONNECTIVITY IDENTIFIES CORRELATES OF AUTISM SPECTRUM DISORDER

11:20 AM Ridgway, Anton and Ripley, Michael
ADAPTIVE ALGORITHMS FOR FIXED-COST MULTI-ARMED BANDIT PROBLEMS WITH BUDGET CONSTRAINTS

SPECIAL TOPIC SESSION: SURFACE AND DEEP LEVEL DIVERSITY, CREATIVITY, AND ATTITUDES IN ORGANIZATIONS

Friday, April 4, 2014 9:30 AM – 12:00 PM
Allen Chapman Activity Center Level 2: Chouteau

9:30 AM Youngren, Westley
THE EFFECTS OF COMMUNICATION ON CONFLICT WITHIN A TEAM

9:50 AM Hannam, Kalli
INTRINSIC MOTIVATION, ORGANIZATIONAL JUSTICE, AND CREATIVITY

10:10 AM Cunningham, Sidney
A NEW INITIATIVE FOR A DIVERSITY TRAINING NEEDS ASSESMENT

10:30 AM BREAK

10:40 AM Curtis, Shane
THIRD PARTY VIOLATIONS OF JUSTICE AND INTERPERSONAL TRUST IN DYADS

11:00 AM Fonseca, Rose
EFFICACY, COMMUNICATION, AND SATISFACTION IN A TEAM CONTEXT

11:20 AM Dahl, Haley
EXAMINING THE DIFFERENCES IN ACADEMIC PROCRASTINATION BETWEEN THE UNITED STATES AND MALAYSIA: A CROSS-CULTURAL INVESTIGATION

11:40 AM Skinner, Leah
DETERMINING THE IMPACT OF CONTEXTUAL FACTORS AND STABLE DISPOSITIONS ON CREATIVITY IN INDIVIDUALS

FRIDAY AFTERNOON, APRIL 4, 2014

SPECIAL TOPIC SESSION: ANTHROPOLOGY RESEARCH MATTERS

Friday, April 4, 2014 12:00 PM – 5:15PM
Allen Chapman Activity Center Level 2: Great Hall B

12:00 PM Clardy, Kelsey
BECOMING THE FACE OF ARCHAEOLOGY: THE IMPORTANCE OF AN ARCHAEOLOGICAL PRESENCE WITH THE PUBLIC

12:20 PM Pirtle, Jenna
'ARCHAEOLOGY IS ANTHROPOLOGY OR IT'S NOTHING': CREATING A MORE HUMAN EXPERIENCE AT THE MUSEUM

12:40 PM Davalos Navarro, Dolores
TOURISM AND RESEARCH IN THE CASAS GRANDES AREA

1:00 PM Ivey, Kim
WHAT CAN MEDICAL ANTHROPOLOGY TELL US ABOUT THE EFFECTS OF STRESS

1:20 PM BREAK

1:30 PM Mraz, Veronica
ACROSS THE LANDSCAPE: AN EXAMINATION OF ENVIRONMENTAL AND CULTURAL CHANGES THROUGH ANALYSIS OF LATE PREHISTORIC LITHIC ASSEMBLAGES FROM NORTH CENTRAL OKLAHOMA.

1:50 PM Miller, Melissa
AN ATTRIBUTE APPROACH TO DIFFERENTIATING GEOFACTS FROM ARTIFACTS

2:10 PM Odewale, Alicia
THE AFRICAN SLAVE TRADE AMONG SOUTHEASTERN CREEK INDIANS

2:30 PM BREAK

2:40 PM Heffington, Hannah
THE UTILIZATION OF GRANT MONEY FOR A CHEROKEE BASKETRY THESIS PROJECT

3:00 PM Bell, Colleen A.
WHAT WERE THEY THINKING?: TRACKING COGNITIVE EVOLUTION THROUGH THE MAJOR STAGES OF LITHIC INDUSTRY DEVELOPMENT

3:20 PM Deere, Bobi
SOUTHEASTERN ICONOGRAPHY: A QUANTITATIVE APPROACH

3:40 PM BREAK

3:50 PM Garner, Katie

CLIMATE CHANGE AND THE ROLE IN HUMAN CULTURAL ADAPTATIONS: PALEO-ENVIRONMENT RECONSTRUCTION IN THE HOLOCENE OF CENTRAL TEXAS

4:10 PM Gilcrease, Sarah
FAUNAL ANALYSIS OF TOR HAMAR, JORDAN: IMPLICATIONS FOR EARLY HUMAN DIET AND LANDSCAPE USE

4:35 PM McGuire, Heather
TESTING THE PALEOECOLOGICAL FIDELITY OF TIME AND SPACE AVERAGED MICROMAMMAL ASSEMBLAGES IN GLADYSVALE, SOUTH AFRICA

4:55 PM Brachtenbach, Travis
PALEOECOLOGICAL RECONSTRUCTION: EVALUATION OF DZUDZUANA CAVE SITE MICROFAUNA

CONTRIBUTED PAPERS: CHEMICAL ENGINEERING

Friday, April 4, 2014 1:00 PM – 3:20 PM
Allen Chapman Activity Center Level 2: Chouteau

1:00 PM Smith, Justin
ALGAE GROWTH MODELING THROUGH THE USE OF A HEURISTIC SIMULATION TECHNIQUE

1:20 PM McGarity, Connor
ANALYSIS OF COMMON POLYSACCHARIDES AS DRAG REDUCING AGENTS

1:40 PM Xue, Sha
AB INITIO CALCULATIONS OF THE STRUCTURE OF CRYSTALLINE PEO3: LICF3SO3 ELECTROLYTES

2:00 PM BREAK

2:20 PM Shih, Susie
TOXICITY ANALYSIS OF DIFFERENT ALCOHOLS ON MICROALGAE

2:40 PM He, Yang
MEASURING THE MECHANICAL PROPERTIES OF A VOLVOX COENOBIA BY DIRECT MICROCOMPRESSION

3:00 PM Christian, Brianna
A MULTISTAGE KNAPSACK APPROACH FOR HEURISTIC SOLUTIONS TO THE PHARMACEUTICAL R&D PIPELINE MANAGEMENT PROBLEM

SPECIAL TOPIC SESSION: CITIZENSHIP AND SERVICE IN A CHANGING WORLD

Friday, April 4, 2014, 2014 3:20 PM – 5:30 PM
Allen Chapman Activity Center Level 2: Alcove

3:20 PM Shewey, Megan and Katy Riojas
M.A.D.E. AT TU

3:40 PM Stuart, Hillary
BACKs: PRETEEN ADOPTEE GROUP

4:00 PM BREAK

4:10 PM DeCook, Ryan, Weston Kightlinger, Michael Tompkins and Daniel Chang
WATER DISTRIBUTION ENHANCEMENT IN COTANI, BOLIVIA

4:30 PM Trafford, Mitchell, Matthew Vuong, and Timothy Brown
ENGINEERING SOLUTIONS FOR BULK FOOD PROCESSING AND DISTRIBUTION

4:50 PM Lin, Suqin* and Logan Dierker*,
Jarett Martin, Andrew Chandler, Joseph Shook, Samuel Taylor, Colin Hicks, Braeden Williams, Charles Bales, Hana Dickens, Joey Clancy, Caleb Roach, Leron REvan, Ken Martin, Grant Volle, Scott Rainwater, Zachary Carpenter, Dana Swift, and J.C. Diaz.
RUSTY THE ROBOT HELPS LITTLE LIGHT HOUSE CHILDREN PLAY IN THE SANDBOX

5:10 PM Proctor, J. Christopher
DIGITIZING COLLEGIAN ARCHIVES

SATURDAY, APRIL 4, 2014

SPECIAL TOPIC SESSION: OKLAHOMA NASA ENERGY SYMPOSIUM

Saturday, April 5, 2014 10:00 AM – 3:10 PM
Allen Chapman Activity Center Level 2: Chouteau

Session 1

10:00AM Burton, Erik
PROPERTIES OF ALL SOLID STATE BATTERY ELECTROLYTE MATERIALS SPUTTERED AS NANOSTRUCTURED THIN FILMS

10:20 AM Adcock Smith, Echo

DOPING ZnO NANORODS WITH COBALT AND THEIR PHOTOLUMINESCENCE SHIFT INTO THE VISIBLE SPECTRA

10:40 AM Fahar, Maryam
AN INVESTIGATION OF EVAPORATION RATE FOR BINARY LIQUIDS WITH COLLOIDAL NANOPARTICLES

11:00 AM BREAK

11:10 AM Hunting, Travis
MAXIMIZING THE ECONOMY OF WELL ORDERED ZINC OXIDE NANOROD PRODUCTION

11:30 AM Cocklin, S.
LEAD SULFIDE QUANTUM DOTS FOR PHOTOVOLTAIC HETEROSTRUCTURES IS

11:50 AM Jayasekara, Indumini
IONIC CONDUCTIVITY ENHANCEMENT OF SOLID POLYMER ELECTROLYTES DUE TO THE NANO- CONFINEMENT EFFECT

12:10 AM BREAK

Session 2

1:00 PM Brown, Nassus
STABILIZATION AND INCREASE IN ION-CONDUCTION OF LITHIUM METAL/POLYMER ELECTROLYTE INTERFACE AS A RESULT OF A PROTECTIVE MOLECULAR LAYER FORMED BY SURFACE "BLOOMING"

1:20 PM Peterson, Heather
A TECHNIQUE FOR DETERMINING THIN-FILM ADHESION STRENGTH

1:40 PM Poyner, Mark
NANOSTRUCTURED THIN FILM $LICoO_2$ CATHODES FOR Li ION BATTERIES

2:00 PM BREAK

2:10 PM Reed, Travis
LOW TEMPERATURE SYNTHESIS OF COBALT DOPED ZINC OXIDE FOR THE USE IN SEMICONDUCTOR MATERIALS

2:30 PM Smith, Kirk
DEVELOPMENT OF A LIQUID FILTER FOR SUBGAP ABSORPTION OF SOLAR ENERGY

2:50 PM Telang, Chinmay M.
SPECTRAL OPTICAL PROPERTIES OF THERMORESPONSIVE SPHERICAL CORE SHELL NANOPARTICLES

SATURDAY EVENING, APRIL 5, 2014

17th ANNUAL STUDENT RESEARCH COLLOQUIUM AWARDS BANQUET

Saturday, April 5, 2014 7:00 PM – 9:30 PM

Allen Chapman Activity Center Level 2: Great Hall A