

# LOUISIANA ACADEMY OF SCIENCES

<b>8:00 – 10:00 am</b>	<b>Registration</b> <b>Continental Breakfast</b>	<b>Brumfield Caffey Annex</b> <b>Brumfield Caffey Annex</b>
<b>9:00 – 11:45 am<sup>A</sup></b>	<b>Poster Presentations (all disciplines)</b> <b>All posters will be available – student posters will be judged</b> Botany/ Environmental Science/ Zoology Molecular & Biomedical Biology/Microbiology Computer Science/ Mathematics/ Materials Science Chemistry/ Physics/Earth Science Agriculture, Wildlife, and Forestry Social Sciences Sciences and Humanities	<b>MPAC Building</b> MPAC 221 MPAC 219 MPAC 225 MPAC 225 MPAC 147 MPAC 147 MPAC 147
<b>9:00 – 11:45 am<sup>B</sup></b>	<b>Oral Presentations</b> <b>Student presentations will be judged – other presentations may be included</b> Botany/Environmental Science/Zoology Molecular & Biomedical Biology/Microbiology Computer Science/Mathematics/Materials Science Chemistry/Physics/Earth Science Agriculture, Wildlife, and Forestry Social Sciences I Social Sciences II	<b>MPAC Building</b> MPAC 146 MPAC 220 MPAC 226 MPAC 222 MPAC 230 MPAC 144 MPAC 145
<b>11:45 – 1:30 pm</b>	<b>Lunch with Keynote Presentation</b>	<b>Brumfield Caffey Annex</b>
<b>1:30 – 2:00 pm</b>	<b>Poster Viewing</b> <b>Presenters are asked to be present</b> Same locations	<b>MPAC Building</b>
<b>2:00 – 4:00 pm<sup>A</sup></b>	<b>Poster Presentations</b> <b>All posters will be available</b> Same locations	<b>MPAC Building</b>
<b>2:00 – 4:00 pm</b>	<b>Oral Presentations</b> Social Sciences III Social Sciences IV Sciences and Humanities Zoology Higher Education/K-12 Education Chemistry/Physics/Earth Science Computer Science Math & Stat/Materials Science & Engineering	<b>MPAC Building</b> MPAC 144 MPAC 145 MPAC 231 MPAC 146 MPAC 220 MPAV 222 MPAC 226 MPAC 230
<b>4:15 – 5:00 pm</b>	<b>Award Ceremony &amp; Business Meeting</b>	<b>Brumfield Caffey Annex</b>

<sup>A</sup> The Poster Sessions will include **ALL** posters. All posters may remain in place for the entire day to allow ample opportunity for viewing. Undergraduate and Graduate Student Award Competition Posters **MUST BE POSTED** by 9:00 am to allow judging during the morning session. All other posters by students not in competitions, postdoctoral students, and faculty/staff should be posted by 9:00 am.

<sup>B</sup> The oral session topics are the categories that will be used in judging the Undergraduate and Graduate Student Oral Competitions. All student presentations will be judged during the morning session. The remaining time in each morning session plus the afternoon sessions will be for students not in competitions, postdoctoral students, and faculty/staff. Sessions for specific LAS Divisions may be warranted after competitions have ended.

**PLEASE NOTE: Efforts were made to have breaks in all the oral sessions at the same time to facilitate movement from one session to another but that was not possible. In order to keep to the same overall timeline, to place speakers in desired sessions, to avoid having single speakers following breaks, and to end the sessions at a reasonable time, there are variations in break times, the lengths of breaks, and the presence of breaks.**

### 9:00 – 11:45 am Poster Presentations

#### Botany, Environmental Science, and Zoology MPAC 221

- |     |   |                |
|-----|---|----------------|
| P1  | Stewart, J.W.<br>Testing subspecies delimitation of Dekay's brownsnake, <i>Storeria dekayi</i> , using ecological niche modeling  | (Southeastern) |
| P2  | Smelker, K.S. and R. A. Valverde<br>Vitellogenin induction by PCBs in the turtle <i>Trachemys scripta</i>   | (Southeastern) |
| P3  | Shakya, G., D.D. Kee, B. Wyman and J. Woolman<br>Soil and plant response to circulating fluidized bed ash particle size   | (McSU)         |
| P4  | Styga, J.M. and R.L. Minton<br>Morphometric analysis of shell shape in the land snail <i>Mesodon thyroidus</i>  | (ULM)          |
| P5  | Kueth, B.M., C.N. Ho, M.L. Reid, and J. Bhattacharjee<br>Vegetation and other factors affecting tree seedlings during old-field succession                                    | (ULM)          |
| P6  | Allen, S.R., C.N. Ho, M.L. Reid, and J. Bhattacharjee<br>Distribution patterns of tree species during secondary succession in bottomlands                                     | (ULM)          |
| P7  | Hargrave, J. L. and D. D. Kee<br>Plant response to controlling salt water soil damage with industrial wastes  | (McSU)         |
| P8  | Samletzka, C. A., J.G. Hinton, and H.A. Meyer<br>Urban ecology of water bears in Southwestern Louisiana   | (McSU)         |
| P9  | Norman, D.K. and C.M. Watson<br>Thermal physiology of a temperate thermo-conformer, <i>Scincella lateralis</i> .  | (McSU)         |
| P10 | Richard, C.B, C. Brumfield, and M.L. Wygoda<br>Lack of effect of dehydration on cutaneous resistance to evaporative water loss in the green tree frog ( <i>Hyla cinerea</i> ) | (McSU)         |
| P11 | Negatu, Z., D. Allen, and J. Paul<br>Protein concentration of fish eggs collected on different days during a single spawning period   | (LSUA)         |

- P12 Bergeron, E. and A.A. Williams (LSUBR and LSUE)  
Heartworm infection in canines on prevention
- P13 Sullivan, B.T., G.Z. Bermúdez, A.N. Domínguez, F.A. Toledano, J.M. Sámano, and S.R. Clarke (USDA Forest Service; IPNI, Mexico; ECFS, Mexico; and SSC, Canada)  
Biosystematics of the *Dendroctonus frontalis* species complex in Mesoamerica
- P14 Guidry, J.T., O.E. Christian, S. Pradhan, C. Richmond and W.H. Dees (McSU)  
Effects of plant and marine animal extracts on mosquito eggs
- P15 Manuel, C. and A.A. Williams (LSUBR and LSUE)  
Mosquito population survey on LSUE campus
- P16 Wood, T.P., A.M.J. Shudes, T.L. Sylvester, and W.H. Dees (McSU)  
Preliminary survey of adult mosquitoes in a city park
- P17 Wood, T.P., S.M. Woodward, C.L. Wood, W.H. Dees, J. Hightower, and K. Savoie (McSU , MCCPPJ, and CCTPCC)  
Natural mosquito control: A study of botanical extracts as potential larvicides, pesticides, and barrier sprays

**Molecular and Biomedical Biology and Microbiology  
MPAC 219**

- P18 Champagne, D.C. and P.E. Shockett (Southeastern)  
Spatiotemporal analysis of illegitimate V(D)J deletions in Notch1 and Bcl11b genes
- P19 Jackson, L.M. (Southeastern)  
Investigating primordial germ cell (PGC) development using germ cell-specific genes in fish
- P20 Quadri, S., P. Prathipati, D.W. Jackson, and K.E. Jackson (ULM)  
Recurrent insulin induced hypoglycemia alters hemodynamic function through the induction of heme oxygenase- 1
- P21 Malaviya A. and P. W. Sylvester (ULM)  
Combined treatment effects of  $\gamma$  – tocotrienol with peroxisome proliferator-activated receptor gamma agonists and antagonists in breast cancer cell lines
- P22 Jaligama, S., S.A. Meyer, V.M. Kale, M.S. Wilbanks, and E.J Perkins. (ULM, Roseman University, and US Army)  
Early hematological effects of MNX (hexahydro-1-nitroso-3,5-dinitro-1,3,5-triazine)
- P23 Kassardjian, M.J., G.B. Morgan, A.R. Schorr, B.N. Miller, C.R. Gissendanner, A.D. Weidemeier, And A.M. Findley (ULM)  
Isolation and characterization of novel mycobacteriophage from soil samples in Northeast Louisiana
- P24 Figueroa, A. and J.B. Drost (McSU)  
Identification of common high-risk alleles at the DRD4 and DAT1 loci and development of PCR genotyping methodology to study the genetics of ADHD within the SWLA population
- P25 Barber, L., L. M. Foreman, E. Bergeron., and A.L. Corbin (NiSU)  
Biocontrol of *Vibrio harveyi* in the shrimp aquaculture with bacteriophage
- P26 Creech, C.C., D. Jackson, and R.L. Minton (ULM)  
A preliminary survey of freshwater snail shell microbes from Bayou Bartholomew

- P27 Dixson, K.S. and J.L. Comeaux (McSU)  
Nasty boys or dirty girls? Enumeration of coliform bacteria on environmental surfaces
- P28 Duplantis, B. and J.L. Comeaux (McSU)  
Inhibition of microbial growth in vitro by sodium salts of respiratory acids
- P29 Grimes, M., J. Carr, and D. W. Jackson (ULM)  
The evaluation of novel beta-lactam antibiotics on a clinical *E. coli* isolate
- P30 Guidry, J.T., J. Prudhomme, and W.H. Dees (McSU)  
Effects of juvenile hormone III and 20-hydroxyecdysone on Gram-negative and Gram-positive bacteria
- P31 LeBlanc, C.J., J.L. Comeaux, and K.J. Jackson (McSU)  
Use of bacteriophages to treat Salmonella infestation in the African Dwarf Frog (Pipidae: Hymenochirus)
- P32 McMahill, L., A. Corbin, and R. Nathaniel (NiSU)  
Evaluating ATMs for the presence of *Staphylococcus aureus*.
- P33 Miller, B.N., J. Putnam, and A. Wiedemeier (ULM)  
Isolation and characterization of novel Agrobacteriophage
- P34 Murphy, A., J. Carr, and D. W. Jackson (ULM).  
The evaluation of novel beta-lactam antibiotics on clinical staphylococcal isolates
- P35 Patten, R., K.A. Jackson, and J. Comeaux (McSU)  
Identification of *Salmonella* infection by PCR
- P36 Patten, R., K.A. Jackson, and J. Comeaux (McSU)  
*Salmonella* infection rates in reptiles and amphibians of Southwest Louisiana

**Computer Science, Mathematics and Statistics, and Materials Science and Engineering  
MPAC 225**

- P37 Rachakonda, U.C. and M.A. Salam (SUBR)  
Evaluation of elliptic curve cryptography and Galois field in securing wireless sensor networks
- P38 Ferdous, T. and M.A. Salam (SUBR)  
Tree-based routing protocols in wireless sensor network: What we have and what we can do
- P39 Melancon, J., M. Koorie, C. O'Neal, and S. Zivanovic (LTU)  
Electron beam detection with thin film devices
- P40 Fasheru, D. S., N. V. Seetala, N. D. Subramanian, and J. J. Spivey (GSU and LSUBR)  
Positron lifetime studies of copper core-porous manganese oxide shell nanoparticles
- P41 Ali, J. K. and S. Lee (GSU)  
A solar tracker system design
- P 42 Elias, O., S. Holmes, and Y.B. Reddy, Y.B. (GSU)  
Channel selection using zero-sum game with software defined radio
- P43** Reynolds, R., and Y.B. Reddy (GSU)  
Android-powered input device over a wireless networks

**Chemistry, Physics, and Earth Science  
MPAC 225**

- P44 Kanthala, S. and S.D. Satyanarayanajois (ULM)  
Purification of recombinant HER2 extracellular domain protein from Schneider2 insect cells
- P45 Bacchus, S.B., C. Bounds, and J.A. Pojman (LSUBR)  
Investigation into the adhesive strength of cure on-demand polymers to thermoplastic materials
- P46 Adtani, S.H. and A.K. Kandalam (McSU)  
Unusual properties of Au<sub>n</sub>O<sub>m</sub> nanoclusters: A computational investigation
- P47 Hoover, D.L. and S. Yoshida (Southeastern)  
Finite element analysis on deformation of metal samples with residual stress
- P48 Pullin, J. I. and L. J. Hopper, Jr. (ULM)  
A comparison of significant tornadoes in the central and southeastern United States
- P49 Dallas, M., B. Horne, and F. Ohene (GSU)  
Density functional theory study of the absorption spectra of polymethine dyes
- P50 Lee, A., T. Junk, and F.R. Fronczek (ULM and LSUBR)  
Synthesis of organotellurium ligands
- P51 Madox, D. (LSUBR)  
Frontal polymerization and its use for cure on demand art
- P52 Solene D., F. R. Fronczek, S. Kasiri, S. S. Mandal, A. A. Gallo, and R. S. Srivastava (ULL)  
Anticancer properties of ruthenium-pyrazole complexes
- P53 Dwyer, R. (Cedar Creek)  
Real and claimed efficiency of CFL's
- P54 Koirala, P., R. Rallabandi, X. Li, X. Tang, Y. Wang, K.H. Bowe, A.K. Kandalam, and B. Kira (McSU)  
From clusters to baby crystal to nano-blocks: Lead sulfide at nanoscale
- P55 Hendon, C.R., D.L. Green, and M.F. Ware (GSU)  
Design and engineering of the Grambling ozone detector atmospheric gas sampler instrument payload

**Agriculture, Wildlife, and Forestry  
MPAC 147**

- P 56 Richard, S. M., and E. K. Lyons (McSU)  
Evaluation of moist soil management activities for waterfowl on USFWS lands in Southwest Louisiana
- P 57 Brown, C.S., D. Kee, B. Chung and F. Phillips (McSU)  
How does Timothy canary grass compare to annual ryegrass?
- P 58 Freeman, J.D., D. Kee, B. Chung, and J. Woolman (McSU)  
Does sulfur source affect yield and nitrogen use efficiency of Jiggs Bermudagrass?
- P59 Battaglia, C.D and J.L. Carr (ULM)  
Survey of the herpetofauna of Upper Ouachita National Wildlife Refuge in Northeastern Louisiana

P60 McBroom, S.R., D. Kee, W. Storer and F. Lemieux (McSU)  
Soybean forage response to ultra low seeding rates

**Social Sciences  
MPAC 147**

P61 Gassam, J.Z. (LTU)  
Women in power: an examination of the virgin-whore dichotomy

P62 Sprout, A. and L.B. Lewis (Loyola)  
Effects of visualization and physical practice on motor performance and self-efficacy

P63 Marshall, S., J. Thibodeaux, W. Buboltz, and J. Middleton (LTU)  
The effects of message framing and pedometer distribution study

P64 Koch, Z. and K. Ernst (Loyola)  
Effects of judge's use of persuasive nonevidentiary influences on jurors' verdicts

P65 Hollins, A.D., M. Cherry, and J.R. McDaniel (LTU)  
Social factors influences on college student perceptions of alcohol serving sizes

P66 McKnight, S., J. Lyons, B. Plaisance, C. Castille, and T. Sheets (LTU)  
A new method in the assessment of spatial ability

P67 Napper, C. N. and T.L. Sheets (LTU)  
Strategy for organizational sustainability using a non-infinite growth paradigm

P68 Novreske, A., and K. Eskine (Loyola)  
The effects of emotions and body posture on perception of trustworthiness

P69 Pittard, J., M. Koch, E. Sanchez, J. McDaniel, and L. Pierce (LTU)  
Female college students' estimates of body factors related to obesity

P70 Richards, M.A., and K.J. Eskine (Loyola)  
Judging working mothers: The effects of a benevolently sexist interviewer

P71 Salsbury, T., S. Dill, L. Pierce, J. McDaniel (LTU)  
Female college students' dieting concerns and estimates of waist size

**Sciences and Humanities  
MPAC 147**

P72 Rau, M.E. (Loyola)  
Art therapy for pediatric oncology patients: a survey of treatment and effects

P73 Smoak, J. H. (Centenary)  
Killing the culture: An investigative study of Belize's cultural evolution

**9:00 – 11:45 am Oral Presentations**

**Botany, Environmental Sciences, and Zoology  
Conveners: Drs. Alex Lasseigne, Frank Phillips, and Jonathan Akin  
Room: 146**

- 9:00 O'Malley, D.A. and E.J. Melancon (NiSU)  
The influence of tidal height and wave energy on first-year oyster reef development on constructed shoreline erosion control structures
- 9:15 Bachler, V and E. Melancon (NiSU)  
A comparison of fish and crustacean communities associated with constructed oyster reefs and natural oyster reefs in a Louisiana estuary
- 9:30 Paight, C.J. and R.L. Minton (ULM)  
Genetic and morphological population structure in freshwater snails over small geographic distances
- 9:45 Playter, A.M. and G.J. Lafluer Jr. (NiSU)  
Comparison of green treefrogs (*Hyla cinerea*) inhabiting wetlands of the upper and lower Barataria-Terrebonne National Estuary
- 10:00 Samaha, D. and R. Boopathy (NiSU)  
Fuel grade ethanol production from Eastern Gamagrass

**BREAK**

- 10:45 Reid, M.L., D.W. Pritchett, and J. Bhattacharjee (ULM and US Air Force)  
Succession in bottomlands: twenty-seven years of change
- 11:00 Stephens, B.N., and C.A. Corbat (LSUA)  
Relationships between anuran presence and habitat characteristics at man-made ponds
- 11:15 Hotard, K. L., and E. Zou (NiSU)  
Is ethoxyresorufin O-deethylase activity in the hepatopancreas of the fiddler crab, *Uca pugnator*, influenced by the molting physiology?
- 11:30 Fuselier, K.B., D.D. Kee, F.X. Phillips, and C.W. Richmond (McSU)  
Stratification parameters for native Louisiana rattlesnake-master (*Erygium yuccifolium*) seeds to achieve adequate germination
- 11:45 Sammons, C.S. (Episcopal HS of BR)  
Zooplankton and the Deepwater Horizon oil spill

**Molecular and Biomedical Biology and Microbiology**  
**Conveners: Dr. Ann Findley and Jameel Al-Dulaili**  
**Room: 220**

- 9:00 Adams, D. and R. Boopathy (NiSU)  
Use of formic acid to control of vibriosis in shrimp
- 9:15 Chen, G., Zhang, C. and J. Feng (LTU)  
Detection of nitrated proteins by capillary gel electrophoresis with laser induced fluorescence
- 9:30 Prasai, B., R. Suhardi, and R. Boopathy (NiSU)  
Use of white rot and brown rot fungi in lignin removal from sugarcane residue for bio-ethanol production
- 9:45 Cooper, J., J., A. Henry, M. Micault, and W. Xu (ULL)  
Biochemical function and structure of Bcl10

- 10:00 Willis, T. (SUBR)  
Factors that affect the growth and metabolism of *Escherichia coli*
- BREAK
- 10:30 Moser, J.C. (USDA Forest Service)  
Mites that transmit Dutch elm disease
- 10:45 Guidry, J.T., W.H. Dees, D. Simon, M. Pilligua, O. Jones, and A. Jerse (McSU and USUHS)  
Allelic exchange of P1A with P1B in *Neisseria gonorrhoeae* decreases in vivo fitness during murine infection
- 11:00 Guidry, J.T., W.H. Dees, D. Simon, M. Pilligua, O. Jones, L. Garvin, and A. Jerse (McSU and USUHS)  
Allelic exchange of P1A with P1B in *Neisseria gonorrhoeae* increases antibiotic resistance
- 11:15 Makolo, A. A., E. Adebisi, and A.O. Osofisan (University of Ibadan and Covenant University)  
Computational interference technique for mining structures motifs
- 11:30 Bounds, C.O., J. Upadhyay, S. Thakuri, and J.A. Pojman (LSUBR)  
Production of stable “boundless” microfluidic devices with tunable surface energies via the in situ tertiary amine catalyzed michael addition of a multifunctional thiol to a multifunctional acrylate
- 11:45 Upadhyay, J., Bounds, C.O. and Pojman J.A. (LSUBR)  
Mechanical, orthogonal de-lamination, and surface energy analysis of novel thiol-acrylate microfluidic materials

**Computer Science, Mathematics and Statistics, and Materials Science and Engineering**  
**Conveners: Drs. Y.B. Reddy, Don Yates, and Naidu Seetala**  
**Room: 226**

- 9:00 Yao, M.J. and J. Fang (LTU)  
Modified PDMS application: capillary stop valve
- 9:15 Williams, L.E. (Southeastern)  
Verification-driven learning applied in case studies
- 9:30 Tull-Walker, N., C.R. Hendon, N.V. Seetala, J. Van Behr, and B. Hester (GSU and SUS)  
Positron lifetime studies of polyimide-CNT composite films
- 9:45 Blair, L., S. Ellis., and Y.B. Reddy (GSU)  
Implementing an event-driven wireless sensor network using MEMSIC’s professional kit
- 10:00 Chao, Y., and Y.B. Reddy (GSU)  
Implementation of RSA cryptography using graphical windowing program

BREAK

- 10:45 Kafle, S., and Y.B. Reddy (GSU)  
Agent-based detection and prevention of packet dropping in wireless sensors using mutual cooperation
- 11:00 Longe, O.B., G.G.O. Egbedokun, O.O. Adewole, and G.O. Odulaja (SUBR)  
Net framework-based internet protocol address filters for client server systems’ security

- 11:15 Mughele, E.S. and O.B. Longe (DSC and SUBR)  
Programming language support for dependability and performance of critical systems
- 11:30 Longe , O.B., P. Danquah, F. Totimeh, and F. Wada (SUBR)  
Profiling stochastic deviant cyber space behavior using honeybaits
- 11:45 Brown, J.B., I.M. Vance, and P.A. Derosa (LTU)  
Charge mobility in non overlapping CNT composite networks

**Chemistry, Physics, and Earth Science**  
**Conveners: Dr. August Gallo, Pedro Derosa, and Gary Stringer**  
**Room: 222**

- 9:00 Banappagari, S., M. Corti, S. Pincus, and S.D.S. Jois (ULM and Research Institute for Children)  
Inhibition of protein-protein interactions by conformationally constrained peptidomimetics and its implication in cell signaling
- 9:15 Wang, S., J. Feng, S.K. Njoroge, K. Battle, and S.A. Soper (LTU and LSU-BR)  
Two-dimensional nitrosylated protein fingerprinting by poly (methyl methacrylate) microchips
- 9:30 Charles, N., R. Adhikari, V. Edwards, and P. Derosa (LTU and GSU)  
An improved model for organic semi-conductor transport
- 9:45 Gilmore, P.M. (UNO)  
Environmental variables affecting the use of remote sensing for monitoring oil spills
- 10:00 Tang, R., C.H. Battle, T. Shaner, M. Fink, and J. Jayawickramarajah (Tulane)  
Synthesis and characterization of silicon nanoparticle-DNA bio-conjugates

**BREAK**

- 10:45 Koirala, P., B. Kiran, A.K. Kandalam, and K.H. Bowen, K.H. (McSU and JHU)  
Structural evolution and stabilities of neutral and anionic lead sulfide nanoclusters
- 11:00 Jee, E., J. A. Pojman, and V. Viner (LSUBR and US Navy)  
Frontal curing of copolymer cyanate ester systems
- 11:30 Bounds, C.O., J. Upadhyay, S. Thakuri, and J.A. Pojman (LSUBR)  
Production of stable “Boundless” microfluidic devices with tunable surface energies via the in situ tertiary amine catalyzed michael addition of a multifunctional thiol to a multifunctional acrylate
- 11:45 Upadhyay, J., Bounds, C.O. and Pojman J.A. (LSUBR)  
Mechanical, orthogonal de-lamination, and surface energy analysis of novel thiol-acrylate microfluidic materials

**Agriculture, Wildlife, and Forestry**  
**Convener: Dr. David Kee**  
**Room: 230**

- 9:00 King, M. R., and E. K. Lyons (McSU)  
Nest persistence and habitat characteristics of colonial wading bird rookeries in Southwestern Louisiana
- 9:15 Soileau, M. S., and E. K. Lyons (McSU)  
Analysis of marsh revegetation efforts in Calcasieu and Cameron Parishes, Louisiana

- 9:30 McElfresh, R. M., D.D. Kee, B. Wyman and F.X. Phillips (McSU)  
Can circulating fluidized bed ash be an effective soil liming source?
- 9:45 Brown, L.D. and J.L. Carr (ULM)  
Aquatic herpetofaunal communities in a regenerating bottomland hardwood forest at Upper Ouachita National Wildlife Refuge, Louisiana
- 10:00 Perkins, J.C. and C.A. Corbat (LSUA)  
Small mammal diversity and abundance in a pasture, interior forest, and pasture-forest interface
- 10:15 Sullivan, B.T. (USDA Forest Service)  
Lost in translation: decoding the chemical signals of bark beetles.

**Social Sciences I**  
**Convener: Dr. Alma Thornton**  
**Room: 144**

- 9:00 Castille, C. M., J.E. Buckner, J.T. Tobacyk, and M.M. Livingston (LTU)  
P < .05 and social scientific epistemology: why a change is in order
- 9:15 Murphy, S.L. and M. Desselles (LTU)  
Filling in the blanks in affective events theory: Insights from reversal theory
- 9:30 Rabalais, A.M., S.L. Murphy, and M. Desselles (LTU)  
A state-based conceptualization of team personality
- 9:45 Arnold, D. H. and C. T. Huynh (LTU)  
The development and application of expertise
- 10:00 Thomas, C.N. and E.C. Dupuis (Loyola)  
College students' parental attachments and their anticipated concerns for work-family conflicts

**BREAK**

- 10:45 Humphrey, J. (SUBR)  
The effects of gender and age on academic performance, extracurricular activities, and cultural enrichment
- 11:00 Prevost, K. (SUBR)  
Examining the relationship between childhood socio-cognitive factors and sexual orientation identity
- 11:15 Taylor, C. (SUBR)  
The relationship between cultural mistrust and attitudes towards mental health and treatment among African American college students
- 11:30 Akuta, E.A. and E.E. Akuta (SUBR)  
In the mind of the cyber criminal; an insider's look at motivation, involvement and deterrence
- 11:45 Akuta, E.A. (SUBR)  
Can anything good come out of 'Obama-care'? Picturing the affordable care act as fraud free

**Social Sciences II**  
**Convener: Dr. Riah Yehya**  
**Room: 145**

- 9:00 Affuembey, A.E. (SUBR)  
The New York Stock Exchange: from one merger to another
- 9:15 Binder, J. B. (LTU)  
Time v. money - a case study of a cost-effective solution for an organization
- 9:30 Cole, T. (SUBR)  
Identification of bias in assessment in speech-language pathology
- 9:45 Davis, S. (SUBR)  
The effects of peer conformity on gender and age
- 10:00 De Leon, J. A. (LTU)  
Effects of job stress on counterproductive work behaviors and organizational citizenship behaviors
- BREAK**
- 10:45 Gaspard, J.P. (NiSU)  
Is the language of swamp people exaggerating Cajun English?
- 11:00 Igou, F.P. and J.J. Walczyk, (LTU)  
Measuring cognitive load: Towards a modern science of lie detection
- 11:15 Mbarika, I., O. Ngwa, and V. Mbarika (LSUBR and SUBR)  
The assessment of telemedicine implementation in Ethiopia
- 11:30 Nchise, A. and V. Mbarika (SUBR)  
The diffusion of the internet in Jamaica
- 11:45 Nchise, A., V. Mbarika, O. Ngwa, and I. Mbarika (LSUBR and SUBR)  
A systematic review of e-democracy research: Summary, evidence and implications

**Lunch**  
**Brumfield Caffey Annex**

**Keynote Presentation**  
**Brumfield Caffey Annex**  
**Converner: Dr. John Doucet**

Using the Louisiana Environment as a Backdrop for College Courses: Coastal Landscape Photography 2000-2011

Gary LaFleur, Dennis Sipiorski, and Nicole Cotton (NiSU, Southeastern, and LUMCON)

Though many states surpass our budget for higher education, Louisiana possesses natural resources that can level the playing field when it comes to environmental learning. In 2000 we established the Coastal Landscape Photography Course as part of LUMCON's summer program. The week-long course brings students to the inaccessible regions of the Louisiana Coast for full days of exploring, with nights devoted to darkroom chemistry. The course culminates in a gallery show containing 50 prints, various paintings, and a treasury of field experiences for students and faculty. We have attracted students from Australia, Canada, and the eastern seaboard, along with many Louisiana students that had never explored their own coast. This type of course may reverse a tendency of over-reliance on Powerpoint lectures that has led to a disconnect between students and the environment. We submit that instilling a sense of discovery, exploration, and land ethic into Louisiana students can be a low-cost strategy for deep learning. Both science and art students have reported benefits. We are confident that our template can be adapted to diverse

elements of the Louisiana landscape, such as Poverty Point, the Red and Mississippi Rivers, the Atchafalaya Basin, Lake Pontchartrain, and the Southwest Prairies.

**1:30 – 2:00 Poster Viewing**  
**Same rooms as used during the morning sessions**  
**Presenters are asked to be present**

**2:00 – 4:00 Poster Presentations**  
**Same rooms as used during the morning sessions**

**2:00 – 4:00 Oral Presentations**

**Social Sciences III**  
**Convener: Dr. Alma Thornton**  
**Room: 144**

- 2:00 Nelson, J. (SUBR).  
Black college students' perceptions of politics
- 2:15 Ngwa, O., A. Nchise, V. Mbarika, and I. Mbarika (SUBR and LSUBR)  
Telemedicine in Sub-Saharan Africa: A discourse of policy and practice
- 2:30 Ong'oa, I.M. (SUBR).  
The effect of public investment in transportation infrastructure on gross state products of American states
- 2:45 Smoak, V.J., C.N. Napper, and A. Frost (LTU)  
Personality behind the profile: Differences between individuals who use Facebook versus LinkedIn.
- 3: 00 Toma, A-M. (SUBR)  
The influence of attire and appearance on female college students' perceptions of rape victims

**Social Sciences IV**  
**Convener: Dr. Riah Yehya**  
**Room: 145**

- 2:00 Tornabene, J. T. and F. P. Igou (LTU)  
Firefighter stress and cardiovascular death
- 2:15 Yehya, R.M. (SUBR)  
Pressing educational challenges in Louisiana
- 2:30 Mueller, A.C. and L.B. Lewis (Loyola)  
Examining the relationship between meditative practices and forgiveness in college students
- 2:45 Longe, O.B., F. Wada, V.W. Mbarika, and O.F.W. Onifade (SUBR)  
Towards a biometric-based low cost cell-phone system for supporting vaccine distribution and uptake for children in resource poor environments
- 3:00 Longe, F. (UI, Nigeria)  
A knowledge retention model to aid organizational changes in public sector organization

**Sciences and Humanities**

**Convener: Dr. John Doucet  
Room: 231**

- 2:00 Doucet, J.P., S. M. Graebert , and D.H. Cibelli (NiSU)  
A structure for galacticalacidesoxyribose nucleic acid
- 2:15 LaFleur, G.J. Jr and D. Sipiorski (NiSU and Southeastern)  
Combining sciences and humanities in a coastal Louisiana field trip
- 2:30 Marino, S.E., and K.J. Eskine (Loyola)  
The effects of body movement and personality on the perception of time
- 2:45 Shu, I, J. Meyinsse, and V. Mbarika (SUBR)  
From oral traditions to digitizing complementary and alternative medicines
- 3:00 Doucet, J. (NiSU)  
Defining “Sciences and Humanities” for the Louisiana Academy of Sciences

**Zoology  
Convener: Dr. Jonathan Akin  
Room: 146**

- 2:00 Hinton, J. G. and H. A. Meyer (McSU)  
New water bear records from the Pacific Northwest of North America
- 2:15 Johnson, C., H. Lewis, and S. Marshall (NSU)  
A mixed population of the exotic brown widow spider (*Lactrodectus geometricus*) and the native northern black widow (*Latrodectus variolus*) in Natchitoches Parish, LA (Araneae: Theridiidae)
- 2:30 Kirkhoff, C.J., A.M. Shudes, T.P. Wood, J.C. Choate, I.J. Louque, J.T. Guidry, and W.H. Dees (McSU)  
Consequences of drought on mosquito-parasitizing water mite communities
- 2:45 Marchio, E.A. and K.R. Piller (Southeastern)  
Phylogeography and taxonomy of *Belonesox belizanus* (Poeciliidae)
- 3:00 Meyer, H.A. (McSU)  
A new water bear, *Minibiotus julianae*, from the Caribbean Island of Dominica
- 3:15 Sancho, J. M. and E. J. Melancon, Jr. (NiSU)  
The influence of the hooked mussel, *Ischadium recurvum*, on the development of oyster reef on structures used for marsh shoreline erosion control
- 3:30 Watson, C.M. (McSU)  
Avian predators and the convergent evolution of lizard phenotypes
- 3:45 Wygoda, M.L. and C. A. Kersten (McSU)  
Source and significance of intermittent body temperature depressions in the green tree frog (*Hyla cinerea*)

**Higher Education and K-12 Education  
Conveners: Drs. Susan Sullivan, Peter Sheppard, and James Whelan  
Room: 220**

- 2:00 Brett, J.M. (LDEd)  
The next generation science standards are coming. What are you going to do about it?
- 3:00 Lanus, D. (SUBR)  
Sustaining black higher education in Louisiana: preserving the Southern University System
- 3:15 Pugh, A., D. Delgado, D. Schween, and R. Mann (ULM)  
Attitudes toward a science methods course in elementary education
- 3:30 Bernard, W.J. (Holy Cross School)  
Authentic research projects: Pre-college students' perspectives
- 3:45 Elder, E.D. (LSUA)  
Lactose operon: A hands-on model

**Chemistry, Physics, and Earth Sciences**  
**Conveners: Drs. August Gallo, Peter Derosa, and Gary Stringer**  
**Room: 222**

- 2:00 Sawyer, L (LTU, ATLAS Colaboration)  
Recent results from the ATLAS experiment at the LHC
- 2:30 Case Hanks, A. T. (ULM)  
Exploration of indoor air quality at ULM
- 2:45 Adhikari, S. and Y. Sanichiro (Southeastern)  
Evaluation of thin film coating adhesion with Michelson interferometer
- 3:00 Poudel, S., P. Koirala, B. Kiran, and A.K. Kandalam (McSU)  
Structural evolution, stabilities, and optical properties of lead selenide nanoclusters
- 3:15 Hopper, L. J. and C. Schumacher (ULM and TAMU)  
Observations and model sensitivities of divergence profiles from MCSs and MCVs
- 3:30 Tullier, M.P. and J.A. Pojman (LSUBR)  
Cure on-demand acrylamide grout
- 3:45 Morales, A. and J. Pojman (LSUBR)  
A study of the effects of thiols on the frontal polymerization and pot life of multi acrylate systems initiated by cumene hydroperoxide

**Computer Science**  
**Convener: Dr. Y.B. Reddy**  
**Room: 226**

- 2:00 Mbarika, V.M.A., A.O. Iteboje, and I. Mbarika (SUBR)  
A multi-media case study pedagogical approach on electronic health records for STEM students
- 2:15 Mesit, J. (GSU)  
A general model for soft body simulation in motion
- 2:30 Oluwatosin, M.A. and O.F.W. Onifade (UI, Nigeria)  
Enhancing SMS services with spreadsheet over Cloud System

2:45 Salam, M.A. (SUBR)  
Limits on the man-in-the-middle attacks and time synchronization in wireless sensor networks

BREAK

3:15 Wada, F. (SUBR)  
Prosecuting cyber criminals in Nigeria – Are existing legal regimen legal enough

3:30 Athill, T., R. Christian, and Y.B. Reddy (GSU)  
Efficient spectrum allocation through synchronized MAC protocol in cognitive networks

**Math and Statistics and Materials Science and Engineering**

**Convener: Drs. Don Yates and Naidu Seetala**

**Room: 230**

2:00 Bracey,S.S., K.A. Evans, I.B. Magaña, and D.P. O'Neal (LTU)  
Modeling of nanoparticle delivery to tumor sites coupled with experimental validation

2:15 Idowu, R. A. , K. A. Evans, M. M. Paun, M. A. Decoster, and K. R. Cotton (LTU)  
Cellular calcium dynamics in culture using fluorescence microscopy - A Statistical Approach

2:30 Carroll, M.L., and D.P. O'Neal (LTU)  
Applications of x-ray fluorescence spectroscopy for quantification of gold nanoparticles in tumors

3:15 Woodard, E.L. and D.P. O'Neal (LTU)  
Skin cancer detection using fluorescence imaging

3:30 Smith, A., G. Richard., S-J. Lee (GSU)  
A temperature warning system design

**Awards and Business Meeting**

**Brumfield Caffey Annex**

**Convener: Dr. Jonathan Akin**