2016 ACET Conference Schedule

Day	Time	Room	Title	Summary	Speaker
10/28/2016	8:45 AM	Plummer	Keynote		
Friday 10/28/2016	9:45AM	Spindletop	Seeking Best-Practice Pedagogy for Teaching Innovation and Entrepreneurship	Research into best practice pedagogy of teaching and learning innovation and entrepreneurship in technologies such as computer science and engineering depends on developing cognitive skills and behavioral skills necessary for creativity, innovation and entrepreneurship. These activities promote the five elements of innovator's DNA: associative thinking, observation, experimenting, questioning, and networking.	Tejus Mane BS Aniket Khade BE Damilola Runsewe BS Dr. Stefan Andrei PhD Dr. David Cocke PhD
Friday 10/28/2016	9:45AM	Lamar	NoSQL database for efficient data storage and retrieval	This is work will introduce applications in Node.js that use MongoDB database. Presentation will include how to download the needed software, create database, and data analytics to reveal information from large volume of unstructured data in Node.js. A number of hands on applications will be presented.	Rajan Alex, Ph.D.
Friday 10/28/2016	10:30 AM	Spindletop	ADOS, An intelligent and Autonomous Desktop Organizer Software for Faculty.	What if there is a way to organize the desktop so that folders, files, and users are neatly organized automatically by keyword and/or relevance. In this proposal, we will try to answer this question and ultimately attempt to develop an autonomous software to accomplish this inherently tedious task.	Isaac K. Gang, PhD Gavin N. Alvesteffer
Friday 10/28/2016	10:30 AM	Lamar	Service-Learning for the Millennial Generation	Service-learning is a form of pedagogy where the student learns by working with a community member outside of class. Service-learning can take the form of projects, internships, or research experience, and has been found to be effective for teaching millennials. This presentation discusses service-learning approaches for imparting IT education.	Nary Subramanian, Ph.D.

Friday 10/28/2016	11:15 AM	Spindletop	Case Study: An Incremental Approach to Developing a Compiler for YPL (Your Programming Language)	I've discovered a wonderful way to help novices learn methods for programming-in-the-large, the semester-long case study, which requires the student to actively engage in re-solving a problem by answering computational-thinking and critical thinking questions and by supplying "missing code" segments. My presentation describes one of my favorite case studies.	Arthur D. Hanna, Ph. D.
Friday 10/28/2016	11:15 AM	Lamar	Why an Information Systems Major Should Focus on the User First	A computer system consists of three major components. These are hardware, software and the user. There is a clear difference between Information Systems, as a major or study, Computer Science and Computer Engineering. While in its purest form, Computer Engineering focuses on enhancing the hardware, Computer Science focuses on software development. What is left is the user. The computer user controls the hardware and the software to manipulate, processes, and solves real world problems. This presentation focuses on the reasons a degree of Information Systems must have a class designed jut to build this type of thinking. A graduate in Information Systems must be a computer savvy, business savvy, and a problem solver. Preparing a person who knows how to utilize both hardware and software creatively, efficiently, critically, and effectively in a field that is changing by the second is another goal of this presentation.	Sam Hijazi Ph.D.
Friday 10/28/2016	1:45 PM	Spindletop	The design of a center of excellence for applications of digital technologies (CADT) in the care and management of health and disability	The CADT will develop innovative digital products and applications that support healthcare providers, caregivers, those with health conditions and disabilities, and their families. Outcomes will fulfill the primary area of research (i.e., developing new evidence-based procedures (EBP) for technologies/health and disabilities management resulting in high quality products and publications).	Stefan Andrei, PhD Monica Harn, PhD Vinaya Manchaiah, AuD, PhD Ashley Dockens, AuD, PhD Jamie Hartwell Azios, PhD Elizabeth Long, DNP Delanea Bronson
Friday 10/28/2016	1:45 PM	Lamar	Teaching Software Testing Techniques in Introductory Programming Courses	Software testing is timely and costly, yet early programming courses often don't teach it. We explain why it needs to be taught and why it has not been emphasized in the past. We offer pedagogically sound activities and examples for educators to use with students to develop good testing habits.	Theresa Horvath, B.S. Takeisha Moranza, M.S. Yihao Li, M.S. W. Eric Wong, Ph.D.

Friday 10/28/2016	2:30 PM	Spindletop	Alternative Leaning Environments Focused on the Learning Preferences of Female Students	Over the past 30 years there has been a dramatic decrease in the percentage of women majoring in computer science when compared to the percentage of women majors in Medical School, Law School, and the Physical Sciences. This trend is a concern for educators in the field of computer science. Several faculty members in the computer science department at Baylor University are looking at ways to help retain women majors in both computer science and bioinformatics. One potential way for improving the retention of this underrepresented population, is to implement the computer science curriculum in ways more consistent with the learning style and social preferences of those populations.	William A. Booth, Ph.D.
Friday 10/28/2016	2:30 PM	Lamar	The Development of a Software Tool to Reduce Time Spent Identifying and Commenting Writing Errors in Research Papers	This technical presentation describes the development of a tool that identifies and comments writing errors in research papers. Written entirely in VBA, the tool operates as a Word Add-in that presents thirty buttons across three ribbons. The rationale for the code that supports each button's actions will be addressed.	Charles L. McDonald, Jr., Ph.D. Theresa A. McDonald, Ph.D.
Friday 10/28/2016	3:45 PM	Spindletop	Why we should teach Excel VBA	Excel is amazing productivity software. It is used by millions of people for business, scientific, and personal reasons. Many people have not taken advantages of the macro side of Excel. This presentation aims at sharing some intriguing and powerful macros to save hundreds of unneeded laborious hours. Also, the presentation will discuss the possibility of using VBA as an introductory programming language for non-computer science major students. VBA is a pure object-oriented language the presentation will discuss some ranges, control objects, ActiveX controls, functions and subs, the application controls, and user	Sam Hijazi Ph.D.
Friday 10/28/2016	3:45 PM	Lamar	Teaching Secure Programming Practices in Introductory Programming Courses	When software does not perform correctly, development costs increase and lives are lost or placed at risk. Software must always work as intended and never be allowed to enter an unsafe state. Teaching students secure programming practices will decrease the risk for software malfunctions, which will reduce catastrophes and abnormalities.	Takeisha Moranza, M.S. Theresa Horvath, B.S. Yihao Li, M.S. W. Eric Wong, Ph.D.

Friday 10/28/2016	4:30 PM	Spindletop	The Basics of Scala Programming	Scala stands for "Scalable Language". This means that Scala grows with you. You can play with it by typing one-line expressions and observing the results. So it feels like a scripting language. But you can also rely on it for large mission critical systems, as many companies, including Twitter, LinkedIn, or Intel do. Scala was created with the goal of being a better language, removing those aspects of Java which are considered restrictive, tedious, or frustrating for the developer. Attend this session to learn the basics of Scala.	Dr. Mary Myers
Friday 10/28/2016	4:30 PM	Lamar	Cybersecurity attacks and their countermeasures	Cybersecurity attacks are conducted by large organizations targeting information systems, infrastructures, networks, personal computing devices by various means of malicious acts. Because of their persistency, cyberwars became the preferred way to disturb the activities of an organization or a country. This presentation will describe these concepts together with existing countermeasures.	Stefan Andrei, PhD
Saturday 10/29/2016	8:30 AM	Spindletop	Online Information Security Practice System	Security classes require much practice in using various hacking tools to attack different operating systems and assess security risks. However, existing security courses do not allow students to fully obtain this practice due to the limitations associated with the performance of students' laptops. This study aims to suggest how to develop online security practice system and to emphasize how important it is on the pedagogical effect.	Heejun Choi Gowthamraju Murududdi Vamshi Vijaykumar
Saturday 10/29/2016	8:30 AM	Lamar	The use of Edit Assist, a Software Assisted Editing Tool for Research Papers	Attend this presentation to see a Microsoft Word Add-in designed to save faculty time in reviewing research papers! It will quickly perform the mundane task of identifying and commenting about 2,000 writing errors. It was written in VBA and includes an easy to use database manager, to configure rules and comments.	Charles L. McDonald, Jr., Ph.D. Theresa A. McDonald, Ph.D.

Saturday 10/29/2016	9:15 AM	Spindletop	What the Best College Teachers Do	This is a summary of Dr. Ken Bain's book titled "What the Best College Teachers Do," Professor Porter will summarize the book and examine the "Power of the Question," as it relates to our discipline and our teaching. The participants will be invited to brainstorm the methods they use to gain and sustain students' attention in their class.	Jackie Porter, MBA
Saturday 10/29/2016	9:15 AM	Lamar	A Security Encryption Technique based on Steganography and Wavelet	Data encryption scheme has been considered a very necessary process for protecting data against unauthorized people. This paper suggests a new encryption scheme based on two methods, such as wavelet and steganography, emphasizing its impact on the cyber security field.	Heejun Choi Xiao Jie Ge Evan Guo Qiang Guo
Saturday 10/29/2016	9:15 AM	Lamar	A look at Computer Science for ALL & AP CS Principles across Texas	The call for Computer Science for all initiative and the introduction of the new AP computer science principles course has created an exciting momentum in computer science education across Texas, how is ACET going to participate in policy making going forward.	Deborah Kariuki , MEd BsCS
Saturday 10/29/2016	10:15 AM	Spindletop	Bitcoin and the Byzantine Generals Problem in Distributed Systems	Bitcoin is a decentralized, distributed system of trust and ownership. It depends on technologies such as a distributed general ledger that is cryptographically verifiable. A central clearinghouse, and sender identity credentials are not needed. Is it the first practical solution to the famous Byzantine Generals Problem in computer science?	Lawrence J. Osborne, Ph.D
Saturday 10/29/2016	10:15 AM	Spindletop	Python in the K-12 Classroom.	Most, if not all, classrooms in our public schools have at least one computer. They are used for classroom management, and communication. This powerful tool can also be used for problem solving when the teachers and students know simple ways to exploit the computers power. This presentation will examine ways in which classroom teachers can use their classroom computer for problem solving at all levels of public school education (K-12).	William A. Booth, Ph.D.

Saturday 10/29/2016	11:00 AM	Lamar	State of ACET – Challenges and Opportunities in developing the next generation of IT Leaders	In looking back to the past year, the author, who is the current ACET President, will conduct a round table discussing some of the organization's accomplishments and areas of improvement as it strives to be one of the leading Computer Science and IT pedagogical associations in the state of Texas.	Isaac K. Gang, PhD
Saturday 10/29/2016	11:00 AM	Spindletop	Microsoft Project Plugin for MagicDraw	As the name suggests, Microsoft Project Plugin is a MagicDraw plugin which integrates MagicDraw and Microsoft Project. The plugin allows the user to import exported XML files from Microsoft Project and view them in MagicDraw. Our goal was to collaborate the functionalities of Microsoft Project in MagicDraw.	Monica Pandey, Anca Andrei, Jay Karmarkar, Alexander Strong
Saturday 10/29/2016	11:45 AM	Plummer	Closing Remarks		William A. Booth, Ph.D. ACET President