Looking Forward
After 40 Years of Progress!

2005 ACET Conference

Texas Christian University, Fort Worth, Texas

October 7 - 8, 2005

Looking Forward After 40 Years of Progress!

2005 ACET Conference

Friday, October 7

7:30am - 4:30	**Registration and Exhibits**	**Tucker (TTC)**
8:30 - 8:45am	**WELCOME** **Amelia Maretka, President of ACET** **Dr. Bonnie Melhart, Associate Provost**	**SWR LH#1**
KEYNOTE 8:45 - 10:15	**Who's Attacking Your Computer and Why?** Paul Williams, President & CTO, Gray Hat Research Corporation This presentation is a fascinating journey into the mentality and tactics of the world's worst cyber-criminals. Attendees will learn how these malicious geniuses conduct daring exploits to accomplish their objectives. Discover what motivates hackers and cyber-terrorists to action. See demonstrations of the most advanced methods used to date to compromise the reputations and profitability of corporations world-wide. The presentation outlines common sense suggestions on ways to detect, prevent and mitigate hacker intrusion attempts, and provides practical business disaster recovery steps in the event an unexpected cyber intrusion event occurs. *Paul is an advisor to federal law enforcement on some of their toughest cyber crime cases. With twenty-eight years of breakthrough innovation and invention across a diverse array of sciences and technologies, he is one of the foremost experts on architectural design-level security in the U.S. today. Paul is President and Chief Technology Officer of Gray Hat Research Corporation; a Houston based firm specializing in security consulting, research and development of proprietary security technologies, robust data protection, and security education.*	**SWR LH#1**
10:15 - 10:35	**Exhibits/Refreshments**	**Tucker**
SESSION #1 10:35 - 11:25	**Developing a Curriculum in Digital Gaming** **Reni Abraham, Houston Community College** Digital Gaming is an interdisciplinary field and developing a curriculum is very challenging. This presentation will first explore the different aspects that need to be considered before the curriculum is developed. The presentation will then proceed to discuss the topics that need to be covered in the curriculum.	**TTC138**
	Fundamentals of Information Security (Part I) **Charles Cowell, Tyler Jr. College** We increasingly depend on computers and communication networks in our individual and work lives. The threat of computer crime or information loss escalates daily. No individual, business or organization is immune. This session discusses the basics of potential threats, their impact, and defenses important to anyone who uses a computer.	**TTC139**
	What do Martha Stewart, Bill Gates, and Monica Lewinsky have in common? **Tim McGuire, Sam Houston State University** Digital forensics is the process of identifying, preserving, analyzing and presenting digital evidence in a manner that is legally acceptable in any legal proceedings (i.e., a court of law.) Our proposed curriculum draws topics from criminal justice, network security, and computer hardware in a way to prepare students to deal with this increasingly important area.	**TTC244**
	Roped Together a Blended Approach to Faculty Development and Training **Romana Hughes, Texas Christian University** TCU created a three-day workshop, "eLearning Boot Camp", which addressed both faculty development and technology training. Upon completion of this workshop, faculty have new ideas and concepts on how to better manage their course using technology, how to better promote student engagement, and how to improve teaching methods.	**TTC245**

SESSION #2
11:35 - 12:25pm

Experience with an Industry-Driven Capstone Course on Game Programming
TTC138

Ian Parberry, University of North Texas

Game programming classes have been offered at the University of North Texas continuously since 1993. The classes are project based, and feature collaborative coursework with art majors in UNT's School of Visual Arts. We discuss the design that enables them to simultaneously provide both training for students intending employment in the game industry, and a capstone experience for general computer science undergraduates.

Fundamentals of Information Security (Part II)
TTC139

Charles Cowell, Tyler Jr. College

We increasingly depend on computers and communication networks in our individual and work lives. The threat of computer crime or information loss escalates daily. No individual, business or organization is immune. This session discusses the basics of potential threats, their impact, and defenses important to anyone who uses a computer. (Continued from Part I.)

Training the Digital A-Team
TTC244

Karon Murff, Sam Houston State University

Law enforcement officers selected for digital forensics teams are generally selected based on their experience in law enforcement rather than their knowledge of digital forensics. We propose to reverse that model through a curriculum integrating criminal justice and computing science to provide graduates prepared to fight digital crime.

Re-Designing Curriculum for the Modern IT World
TTC245

Ken Busbee, Houston Community College

Explanation of how HCCS' Computer Science Technology Department re-designed its degree and certificate plans to better serve its students and the changing Information Technology world. Topics will include: using academic courses when appropriate, which support courses to consider, how to make counseling freshmen simple, allowing for transfer plan, etc. A short presentation will be followed by Q&A.

LUNCHEON
12:25 - 2:00pm

Using Visual Studio 2005
Smith

Diane Zak

What should be taught in the first programming course? Should we use console applications to teach programming concepts only? Or should we use a GUI to teach the concepts? This presentation poses many questions regarding the introductory programming course. It also explores various ways of using Visual Basic 2005 in the course.

***** Luncheon provided by Course Technology/Thomson Learning *****

Please Return to Tucker Technology Center and Visit Sponsors' Exhibits!!

SESSION #3
2:00 - 2:50pm

Senior Project Capstone Course Panel Discussion
TTC138

Moderator: Shohreh Hashemi, University of Houston - Downtown
Discussants: Vicky Cereijo (UTA), Ian Parberry (UNT), Tom Rethard (UTA), Ruth Robbins (UHD), Herb Rebhun (UHD)

The pros and cons of a Senior Project capstone course is the focus of this panel presentation. Whether this course should be required or elective, who should be allowed to enroll in it, what the expected outcomes from the course are, what its prerequisites should be, what topics should be covered in the course, what methods should be used to deliver course materials, what projects are acceptable, and whether group projects should be allowed are among the questions that the panel will address. In addition, the panelists will share their experiences teaching this course emphasizing the pitfalls that can be avoided to ensure successful delivery of the course.

Open Source Software, Live Linux CDs, and Kolb's Experiential Learning Model: Components of Security Lab Design
TTC139

Ed Crowley, University of Houston

Security lab development tends to be resource, labor, and support intensive. Many programs find obtaining the necessary resources, labor, and support for creating and maintaining effective computer security lab modules problematic. Come to this presentation to learn of the three component lab design methodology used to mitigate problems at the University of Houston.

Which Computing Skills Are in Demand in the Metroplex?
TTC244

Arthur Reyes, University of Texas at Arlington

Students in computer science, computer engineering, and software engineering baccalaureate programs want to know what technical skills are in demand now or will be when they graduate. I conducted an informal investigation of this question by submitting 158 unique queries to http://technology.monster.com for "Texas-Dallas" and "Texas-Fort Worth".

Enhancing The Computer Science Curriculum Through Web-Based Modules
TTC245

Marie-Anne Demuynck, Wayne Zimmerman, Mark Hamner, Texas Women's University & Melinda Holt, Southeastern Louisiana University

	Project designed to attract talented females and minorities to pursue careers in Computer Science and Mathematics, based on the thesis that providing students with support through the Internet enhances learning, interest and retention. Project was formulated to develop independent, interactive web-based learning modules that offer *always-available* convenient instructional support.	
SESSION #4 3:00 - 3:50pm	**The Keys to the Harem** **Judith Bennett, Sam Houston State University** Have you ever wondered about where you can get ideas for projects, assignments and other items used in classes? The Internet, personal experience, newspapers or other places are all rather mundane. How about searching for the perfect project and never finding it? This presentation deals with all of these questions and answers the question, "What do I do with the keys to the Harem".	**TTC138**
	Mobility with Security **Conrad Geiger, Sun Microsystems** More than ever, people need secure access to their data anywhere, at any time, and on any device with ease of access from a variety of Java-enabled devices--desktops, mobile devices, cellular phones, and wireless devices. True mobility is about providing secure information to administrators, teachers, consumers - practically anyone, no matter where they are. It's about making valuable, secured information as mobile as the person who uses it.	**TTC139**
	Using Computer Science Graduate Students to Provide AP Instruction **Brian Carlgren & Greg Speegle, Baylor University** School districts must be creative about providing computer science AP instruction. Graduate programs need sources of funding for graduate students. This is a potential win/win scenario. Baylor University and Midway Independent School District formed such a partnership for three years. We present our findings from this association.	**TTC244**
	Providing Future Teachers with Technology Skills: Practical Projects **Marie-Anne Demuynck & Barbikay Pohl, Texas Women's University** Development of Advanced Computing Technology course, required for all undergraduate students seeking teaching certification. Content focuses on integration of technology in the classroom, using common software as starting points. Heavy emphasis is on development of reality-based tools for teachers, the development of a teacher curriculum web site, and on linking it all together.	**TTC245**
	******** Student Posters ********	**Tucker**
3:50 -4:10pm	**Exhibits/Refreshments**	**Tucker**
	******** Student Posters ********	**Tucker**
SESSION #5 4:10 - 5:00pm	**Imagine Cup** **Bradley Jensen & Alfred Thompson, Microsoft** Microsoft's Imagine Cup is a worldwide contest in which participants use their creativity, knowledge, and technical abilities to create an innovative product that uses computer technology to enhance people's lives. Students compete in teams of up to four people in one of nine categories, including software design, computer graphics rendering, short film or algorithms. This presentation will explain the program and how you can get your students involved.	**SWR LH#1**
	******** Student Posters ********	**Tucker**

Friday Evening – President's Reception

Dinner & Entertainment @ Billy Bob's Texas
Fort Worth Stockyards

Thank You, Microsoft & TCU!!

Buses leave from Springhill Suites lobby entrance for Billy Bob's @ 6:15, 6:30, 7 and 7:15pm
Buses return from Billy Bob's to Springhill Suites at 10, 10:30, 11, 11:30pm, and midnight

Saturday, October 8

SESSION #6
8:30 - 9:20am

Building a Balanced Game Development Program — TTC138

Dep-Wah Davis, Tomball College

This session explains how to create a game development program that balances between the media, programming, and graphic elements to ensure the students have a broad based knowledge entering the industry.

Catch that Screen: Creating Video Tutorials for Your Students — TTC139

Elizabeth Pannell & Ann Cervantez, Collin County Community College

Explore using Camtasia Studio to create video screen captures for your students. This demonstration includes how to record the screen, create narration, edit, and publish video tutorials. Sample online tutorials will be available along with printed handouts to those who attend this presentation.

Creation of a Web-Based Flight Database System for Instruction — TTC244

Deborah Dunn, Stephen F. Austin University

One of the difficulties in teaching database design and manipulation is the availability of a repository of significant size for use in instruction. We have created a web-based flight database system of significant size to serve as the basis for demonstrating database design, creation, administration, manipulation, querying, data warehousing, and mining.

Organizing and Conducting a Study Abroad Trip — TTC245

Bill Bane, Tarleton State University

What I learned when organizing and leading a Study Abroad Trip to Berlin, Amsterdam, Paris, and London in May 2005. What are some of the do's and don'ts in the endeavor – when to start, what are the options, contacting companies, rules for conduct, what to expect, etc.

SESSION #7
9:25 - 10:15am

Lessons Learned in Teaching Firewalls and Intrusion Detection System — TTC138

Steve Kolars, San Antonio College

The first time you teach a course, you have certain expectations: you expect a requisite knowledge level from the students, you expect to cover certain material, and you expect to follow a well thought out and well planned out schedule. Sometimes in life, reality does not equal expectation. When this happens in the classroom, what do you do? In this session we will discuss how our Firewalls and Intrusion Detection System classes have evolved. What did they look like the first time they were taught, what do they look like today, and why?

Investigations and Digital Forensics — TTC139

Sgt. James Crouch, Arlington Police Department

As we enter into the 21st. Century, investigators must be able to obtain and evaluate evidence stored within computers in a wide variety of cases. Narcotics and prostitution rings use computers to store records. Evidence of fraud and theft often exists only as data stored within computers. Sgt. Crouch will discuss forensic certification and describe several cases solved by computer forensics.

Virtualization — TTC244

Mary Myers, NHMCCD

Advancements in VM technology have given new life to the concept of virtualization. Many consider it to be the future of computing and the business world is paying attention and investing major money on implementations. Virtual machines can be used to consolidate the workloads of several under-utilized servers to fewer machines, to run legacy applications, to provide secure, isolated sandboxes for running untrusted applications, to provide the illusion of hardware, to simulate networks of independent computers, and to run multiple operating systems simultaneously. Virtual machines can isolate what they run, so they provide fault and error containment. You can inject faults proactively into software to study its subsequent behavior. Virtual machines are great tools for research and academic experiments in that they provide isolation and can be used in education to teach multiple courses and/or operating systems on one machine.

Really Remote Labs — TTC245

Serena Butler, Collin County Community College

Remote lab access with real equipment has been exciting for students as well as instructors, as CCCCD participates in the CCNA BDL Pilot Program and CCNP BDL Instructor Training. Have a look at our approach to remote lab access and the evolution of blending in our blended distance learning courses.

10:15 -10:30am — **Refreshments** — **Tucker**

SESSION #8
10:30 - 11:20am

CyberLaw Update 2005 — TTC138

Chuck Stowe, Sam Houston State University

The year 2005 marks the year that identity theft moved from a threat to a crisis! It also marked the year that the USA Patriot Act was reviewed by Congress for renewal. The Courts handed the Hollywood Music Industry a win, discouraging file swapping web sites. These among the legislative and judicial activities that shape the legal landscape for those in the computer services industry. This presentation reviews changes to cyberlaw during 2004-5.

A Model Curriculum for Information Technology Undergraduate Programs — TTC139

Cheryl Willis & Susan Miertschin, University of Houston

This presentation will describe the work completed to date by ACM's Special Interest Group on Information Technology Education (SIGITE) for undergraduate programs in IT. Included will be discussion of the IT body of knowledge, learning outcomes, curriculum models, and course descriptions presented in SIGITE's report to ACM, as well as ABET accreditation information.

Developing and Teaching an Online Class — TTC244

Bill Bane, Tarleton State University

Personal experiences in developing five courses and teaching ten classes, including programming languages, data base, quantitative analysis, and computer management courses.

Increased Learning through Improved Communication: the use of Weblogs — TTC245

Vicky Cereijo, University of Texas at Arlington

The Internet is providing new communication opportunities in both the corporate and education environments. Currently, one of the major trends in this area is blogging. This presentation will explore how Weblogs can augment and aid educators integrate technology in their course curriculum and strengthen student-student and teacher-student communication. A brief demonstration with useful tips on creating your own Weblog will also be presented.

SESSION #9
11: 25 - 12:15pm

A Multi-Purpose Model for Online Content — TTC138

Gail Kellersberger, University of Houston

This presentation describes a multi-purpose model for the presentation of online contents that is designed to accommodate all disciplines, in any degree of intensity and focus. The model is useful because it is designed to be appealing, easy to use, attractive, and interactive. The model can market an educational program, serve as a teaser for an online course, provide a topical reference library, provide online spot-content presentation in a face-to-face course or be a full-blown online course, and offer remediation, basic skills, and reinforcement practice for students who need extra attention but do not have constant access to an instructor. The designer creates short, directed instructional materials via WebCT and Respondus in a self-explanatory, self-grading, instant feedback format that provides constant positive reinforcement. The courses are focused, colorful, attractive, interactive and easy for the user to navigate, appealing to all learning modalities. From the designer standpoint, the material only has to be created once and remains a steady resource for the instructor or program.

Using the Collegiate Cyber Defense Competition (CCDC) As A Summative Tool For Security Curriculum — TTC139

Larry Lee, David Hattox, & Stephen Smith, Del Mar College

Participation in the 1st Southwest Region Collegiate Cyber Defense Competition sponsored by the U of Texas-San Antonio's Center for Information Assurance and Security (CIAS) by a team of students enrolled in Del Mar College's Cyber Security and Forensics program (funded by an NSF grant) provides a wealth of information on its information assurance curriculum development.

Practical, Portable Handheld Computers: Computing Tools for the Secondary/Higher Education Student — TTC244

Candace Figg, West Texas A&M & Jenny Burson, UT Austin

This presentation will introduce participants to the nuts and bolts of using handhelds in instruction. Highlights will include demonstrations of the newest tools, the basic software and attachments needed to use handhelds in instruction, and briefly describe best practices for their use in instruction in the secondary/higher education educational environment.

Testing and Test Banks, the Good, the Bad, the UGLY! — TTC245

Tim Gottleber, North Lake College

In this time of publisher made test banks, the art and science of crafting tests is being lost to convenience. We need to examine the purpose for creating tests, the types of test items, when they are appropriate, and how to craft a useful test. Reliance on publishers test banks is often unfair to both students and faculty.

12:15 - 1:45pm

LUNCH AND ANNUAL MEMBERSHIP MEETING — Smith

(including Election of Officers followed by drawing for Door Prizes)