

RMCCSC Program 2007
Utah Valley State College, Orem, UT.
Friday, October 19 and Saturday, October 20

Welcome to the Sixteenth Annual
Consortium for Computing
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Mountain Region Conference

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	Time	Track A Room: CS 501	Track B Room: CS 502
FRIDAY	10:00 11:30		
	Noon	REGISTRATION – CHECK-IN	
	1:00	Welcome message: Dean Ernest Carey Keynote Speaker Dr. Alistair Cockburn Room CS 404	
	2:15	BREAK Vendors/Publishers/Sponsors Room CS 406	
	2:30	<i>Moderator: Dr. Floyd Wilkes</i> <i>Teaching OS Design through Implementation of a Simulated Operating System</i> Todd Peterson and Sean Crosby	<i>Moderator: Dr. John E. Anderson</i> <i>Practical Computation Theory</i> Chuck Allison
		<i>The LINUX Router – An Inexpensive Alternative to Commercial Routers in the Lab</i> David Heldenbrand and Christopher Carey	<i>Categories of Data Structures</i> Peter Falley
		<i>Using Visualization to Locate Rogue Access Points</i> Dino Schweitzer, Wayne Brown, and Jeff Boleng	<i>DiaTrack: Web-Based Application for Assisted Decision-making in Treatment of Diabetes</i> Olga Medvedeva, Tamara Knox, and Jody Paul
	3:45	BREAK Vendors/Publishers/Sponsors Room CS 406	
	4:00	<i>Moderator: Dr. Reza Sanati</i> <i>Programming the Eight-Core Propeller Chip</i> Martin Hebel and Dave Scanlan	Moderator: <i>Jan Bentley</i> Workshop: <i>Game Show Usability Testing Workshop</i> Kim Bartholomew, Dr. Thor A. Anderson and Anne Arendt
		<i>The Untapped Power of Generic Algorithms</i> Chuck Allison	
		<i>The Use of Concurrent Codes in Computer Programming and Digital Signal Processing Education</i> William Bahn, Leemon Baird, and Michael Collins	
5:15	Adjourn		
6:30 9:30	Banquet – Center Stage Entertainment: Tony North Speaker: Dr. Gordon Stokes		

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Saturday	Time	Track A Room: CS 501	Track B Room: CS 502
	8:00	Refreshments	
	8:30	<i>Moderator: Dr. Keith Mulbery</i> <i>The Simplest Unit Test Tool That Could Possibly Work</i> Chuck Allison	<i>Moderator: Dr. Curtis Welborn</i> Workshop: <i>Scribbler Robot</i> Terry Scott
		<i>Crafting a Software Engineering Capstone Project Course</i> Steve Hadfield and Nathan Jensen	Lab: CS 617
		<i>Learning the Lessons of Architecture Patterns</i> Neil Harrison and Alistair Cockburn	
	9:45	BREAK Vendors/Publishers/Sponsors Room CS406	
	10:00	<i>Moderator: Dr. Keith Olsen</i> <i>Do you know JACK? The Java Architecture Construction Kit</i> Steve Beaty	<i>Moderator: Dr. David Johnson</i> <i>ECommerce Systems Design Course Using Java Servlets</i> Robert Silverman, A Frank Ackerman, and Harry Chesley
		<i>Using a Restricted Subset of Java in the First Part of CSI</i> Jerry Shultz	<i>Teaching E-Commerce in an Information Systems Program: Striking a Balance Between Business Models and Implementations</i> Zehai Zhou
		<i>Teaching Design Patterns: A Matter of Principle</i> Chuck Allison and Neil Harrison	Student showcasing their project Steve Wiersma
	11:15	BREAK Vendors/Publishers/Sponsors Room CS406	
11:30	<i>Moderator: Neil Harrison</i> <i>Teaching and Viewing Recursion as Delegation</i> Jeffrey Edgington	<i>Moderator: Masood Amin</i> <i>Intrusion Detection Using the Chi-Square Goodness-of-fit Test for Information Assurance, Network, Forensics and Software Security</i> Rohitha Goonatilake, Ajantha Herath, Suvineetha Herath, Susantha Herath and Jayantha Herath	
	<i>Public Key Infrastructure Visualization</i> Derek Ebeling and Rob Santos	<i>Designing Computer Forensics Courses Using Case Studies to Enhance Computer Security Curricula</i> Ajantha Herath, Suvineetha Herath, Rohitha Goonatilake, Susantha Herath and Jayantha Herath	
	<i>Moderator: Aaron Gordon</i> <i>Nifty Programming Assignments</i> <i>Contributors: Anyone</i>		
12:45	Adjourn for Lunch		
1:00	LUNCHEON & WRAP-UP Room CS 404 TBD		
3:00	Adjourn		

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Keynote Speaker: Dr. Alistair Cockburn

Teaching the next generation software engineering

Abstract:

Most software engineering courses do not incorporate current best practices found in industry: collaborative development, automated testing, frequent integration, version control, user-centered design, architectural patterns, active reflection, incremental / iterative development, and so on. A typical excuse is that the material isn't suited to incremental / iterative teaching, so that a waterfall-styled, semester-long project is all that can be managed in the first semester course. A side excuse is that "software engineering" as it is usually perceived is "too heavy", even irrelevant, to junior students.

This talk introduces a new conceptual model for software engineering, one that is effective on busy projects in industry, is built on a solid foundation, and provides a useful pedagogical model for curricula in computer science, information systems, informatics or software engineering. The model emphasizes the above short-changed topics, especially collaboration, communication and reflection.

The talk shows how this material can be staged incrementally and iteratively within a single semester so that all assignments, small and large, are amenable to incremental delivery with automated regression tests and versioning comments. These lessons are applicable to other courses not yet using incremental development in the homework.

Author's Bio:

Dr. Alistair Cockburn is one of the world authorities on software development, named in 2007 as one of "The All-Time Top 150 i-Technology Heroes" for having helped to craft the Agile Software Development Manifesto and the project management Declaration of Interdependence. A lively speaker, he is the leading exponent on writing effective use cases, and developed the Crystal family of ultra light methodologies to capture patterns of successful project teams.

Many of his materials are available online at:
<http://alistair.cockburn.us>

Banquet Speaker: Dr. Gordon Stokes Associate Dean, School Technology & Computing at UVSC soon to become UVU (Utah Valley University)

Entertainer: Tony North YoYo Man

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