

**Programming Contest Hosting**

presented at the

CCSC Mid-South 2011 Conference

April 1-2, 2011

*Presented by:*

Steve Baber, Harding University  
Becky Cunningham, Arkansas Tech University  
David Hoelzeman, Arkansas Tech University  
Rick Massengale, University of Arkansas – Fort Smith

*Organized by:*

David Hoelzeman, Arkansas Tech University

## **Abstract**

The Programming Contest Hosting Tutorial to be presented at the 2011 CCSC:Midsouth Conference is based on the experiences of the presenters' years of experience in hosting and/or participating in the ACM ICPC and CCSC-MS programming contests. The presentation covers all aspects of contest hosting including hospitality, problem development, hardware and network, software, and a networked problem submission software. The presenters will be David Hoelzeman and Becky Cunningham from Arkansas Tech University; Steve Baber from Harding University; and Rick Massengale from University of Arkansas, Fort Smith. In addition to the above tutorial presentation, Dr. Hoelzeman will be assisting in the programming contest held during the CCSC:Midsouth Conference.

## **Purpose/Objectives**

The primary objective of the tutorial is to provide details of what is involved in hosting a programming contest in the style of the ACM International Collegiate Programming Contest that is held annually. The desired result is to provide information on what has worked and what hasn't worked, hopefully reducing the amount of mistakes a hosting site would make.

## **Significance/Need**

With a minimum of two programming contests per year, each being possibly hosted by a different institution, the likelihood of a hosting institution not being familiar with the needed contest configuration is high, at least in the immediate future. To my knowledge, only three schools in the state have made use of the network submission software (PC<sup>2</sup>): Arkansas Tech University (first in the state to use it); Harding University; and University of Arkansas.

## **Summary and Conclusions**

The presentation went well although it wasn't very well attended - probably just didn't interest anyone that wasn't anticipating hosting a contest in the immediate future. Surprisingly, the component that generated the most questions was the 'hospitality' related issues presented by Becky Cunningham. In retrospect, it would've been better had we stuck with setting up the presentation as a 'Workshop' (three hours) instead of a 'Tutorial' (1.5 hours) as we ran out of time for some of the technical discussions.



# Midsouth Region

Consortium for Computing Sciences in Colleges



September 29, 2011 - 2:50 pm

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## CCSC-MS: 2011 Conference Agenda

Conference Year:

Friday, April 1, 2011  
Morning Workshop

[Brewer-Hegemen Conference Center Info and Layout\(479KB image inside!\)](#)

**Brewer-Hegemen Conference Center: Front Desk (North Lobby) Registration**  
8:00am - 4:00pm

**Brewer-Hegemen Conference Center: Room #1 Workshop I**  
8:30am - 11:00am  
*An Introduction to OpenMP*  
David Naugler Southeast Missouri State University  
[Show/Hide Abstract](#)

Friday, April 1, 2011  
Afternoon Sessions

**Brewer-Hegemen Conference Center: Room #4 Welcome**  
11:15am - 11:30am  
Larry Morell Arkansas Tech University  
Vamsi Paruchuri University of Central Arkansas

**Mathematics and Computer Science Building: #115**  
**Programming Contest Lunch and Meeting**  
12:00pm - 1:00pm



systems, and in interdisciplinary research that applies computing to the geosciences. She has been a faculty member at the University of Arkansas since 1998.

**Saturday, April 2, 2011**  
*Morning Sessions*

**Mathematics and Computer Science Building**  
**Concurrent Session IV**  
**8:30am - 10:00am**

**A. Papers: Data Analysis** **MCST #338**  
**Moderator: Matt** **Arkansas Tech University**  
**Brown**

*Staging a Realistic Entity Resolution Challenge for Students*  
Yinle Zhou University of Arkansas at Little Rock  
John University of Arkansas at Little Rock  
Talbert

*Sensitivity of Different Machine Learning Algorithms to Noise*  
Abhinav Atla University of Central Arkansas  
Victor Sheng University of Central Arkansas  
Naveen Singireddy University of Central Arkansas  
Rahul Tada University of Central Arkansas

*Improving Non-Small Cell Lung Cancer Classification Using Data Mining Techniques*  
Quoc-Nam Tran Lamar University

**B. Tutorial IV** **MCST #339**

*Programming Contest Hosting*  
Steve Baber Harding University  
Becky Cunningham Arkansas Tech University  
David Hoelzeman Arkansas Tech University  
Rick University of Arkansas at Fort Smith  
Massengale

[Show/Hide Abstract](#)



This tutorial is based on the experiences of the presenters' years of experience in hosting and/or participating in the ACM ICPC and CCSC-Midsouth programming contests. The presentation covers all aspects of contest hosting including hospitality, problem development, hardware and network, programming related software, and the Programming Contest Control system (PC<sup>2</sup>) developed by California State University, Sacramento (<http://pc2.ecs.csus.edu/>). At the end of the tutorial the attendee should have implemented a simulated contest site on a single computer. Time permitting, a discussion or implementation of a multi-site setup will be made (depending on available resources).

**C. Undergraduate Student Presentations I** **MCST #329**  
**Moderator: Mark Goadrich** Centenary College

*Optimizing Parallax Barrier Tilt Viewing Angles Through Alternative Interlace Patterns*  
 Marcus Truscello, University of Central Arkansas  
 Yu Sun (advisor)

*A Parser-Generator For Building Extensible Grammars*  
 Stephen Pryor Arkansas Tech University  
 Joshua Milligan Arkansas Tech University  
 David Middleton Arkansas Tech University  
 (advisor)

*Quick Full-text Search*  
 Timothy Newman University of Arkansas at Fort Smith

*An Elementary Virtual Environment For Building Interpreters*  
 Stephan Atkinson, Arkansas Tech University  
 David Middleton (advisor)

**Break** **MCST #330**  
**10:00am - 10:15am**

**Mathematics and Computer Science Building**  
**Concurrent Session V**  
**10:15am - 11:45am**

**A. Papers: Tools & Applications** **MCST #338**  
**Moderator: Southeast Missouri State University**  
**David Naugler**



# Midsouth Region

Consortium for Computing Sciences in Colleges



September 29, 2011 - 2:49 pm

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