

28th Annual Conference

# Drury University April 1 - April 2, 2022

Conference Program



# DRURY UNIVERSITY



Scott Sigman , Ph.D. 2022 CCSC Central Plains Conference Chair



Central Plains Region

#### 2022 CCSC Conference Welcome

Welcome to the 28th Annual CCSC Central Plains Regional conference, to Drury University and to Springfield, Missouri. Our program features two distinguished speakers, Michael Newton, Software Scientists/Chief Engineer at L3Harris Technologies, and Mark Garton, SR Director of IT Governance and Data Strategy at O'Reilly Auto Parts Stores, Inc. The conference features an engaging program of paper presentations, tutorials, panels, "Nifty Assignments", Lightning Talks, student poster presentations, student papers, and a student programming contest. Activities begin on Friday morning with a preconference workshop and conclude on Saturday afternoon with our annual student programming contest.

A wide range of topics are addressed by conference presentations. Topics vary from preparing students to work as developers and IT professionals in a post-pandemic work environment to teaching functional programming remotely. In addition to technical sessions, time for networking has been provided during numerous breaks. Take time to be challenged by our presenters, to glean new ideas for use in your classroom and to visit with others who have a passion for improving computing education.



Central Plains Region



Michael Newton L3Harris Corporation

## **Friday Opening Keynote Speaker**

Michael Newton is a Software Scientist at L3Harris Technologies leading system engineering and software engineering teams in the development of mission system software. He is a graduate of Southwest Baptist University with a B.S. in Computer Science/Mathematics and a M.S in Software Engineering from Texas Christian University. His career includes technically leading geographic disparate, embedded software engineering teams at Motorola Solutions for 28 years. In addition, he taught Computer Science courses from a practitioners perspective at Southwest Baptist University during the 2002-2003 school year.

## **Dinner Keynote Speaker**

Mark Garton is the Senior Director of IT Governance and Data Strategy at O'Reilly Auto Parts Stores, Inc. He leads teams responsible for information security, software quality assurance, and data strategy. With over 24 years of experience as an IT professional, he has worked in information technology from software development to establishing a cyber security program. He is passionate about developing leaders and created a leadership development program for new technology managers. He holds a BA in Mathematics from Drury University and a Master's Degree in Computer Information Systems from Missouri State University.



Mark Garton
O'Reilly Auto Parts Stores, Inc.



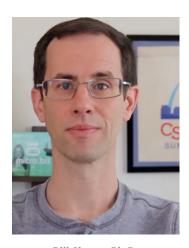
Central Plains Region

## **Pre-conference Workshop**



Michael P. Rogers, Ph.D. Assistant Professor, University of Wisconsin, Oshkosh

Michael is an Assistant Professor at the University of Wisconsin Oshkosh where, among other things, he teaches courses in Mobile App Development, Web Software Development, and Software Engineering. He has published numerous apps, including his most recent Flutter app The G.R.E.A.T. App (not a boast, rather an acronym for General Revenue, Expenditures, And Taxes).



Bill Siever, Ph.D. Teaching Professor, Washington University, St Louis

Bill is a Teaching Professor at Washington University in St. Louis, where he teaches courses in Computer Science, Computer Engineering, and the Internet of Things. Bill's consulting has included embedded systems and app development.



### Schedule of Events Friday, April 1, 2022

9:00 am - Noon Pre-conference Workshop

Flutter: n Platforms, 1 Codebase, 0 Problems

Michael Rogers, University of Wisconsin Oshkosh; Bill Siever, Washington University

in St. Louis

**LOCATION: Springfield Hall (second floor) Lab A** 

1:00 - 2:00 pm Opening Assembly

A Software Engineering Career from the Perspective of Availability, Reliability and

**LOCATION: Breech 105** 

Maintainability

**Keynote: Michael Newton, L3Harris Corporation** 

**LOCATION: Lay Auditorium** 

2:00 - 5:00 pm Vendor Fair

**LOCATION: Breech Vestibule** 

2:15 - 3:15 pm

Papers Panels Vendor's Presentations

LOCATION: Breech 103

Moderator TBD

LOCATION: Breech 102

Moderator TBD

Integrating Data Science Into
Challenges Developing and Teaching
a Computer Science Curriculum
Online Professional Courses for
Kian Pokorny/McKendree University
Technical Graduate Programs

How to Secure ABET Accreditation for a Cybersecurity Program: A Case

Denise Case, Ajay Bandi, Nathan Eloe,
Aziz Fellah, Charles Hoot/Northwest Missouri

State University

Xiaodong Yue, Belinda Copus, Hyungbae Park/University of Central Missouri

3:15 - 4:00 pm Break and Vendor's Exhibits

**LOCATION: Breech Student Lounge** 

4:00 - 5:00 pm

Study

Papers Panels Vendor's Presentations
LOCATION: Breech 103 LOCATION: Breech 102 LOCATION: Breech 105

LOCATION: Breech 103 LOCATION: Breech 102 LOCATION

Moderator TBD Moderator TBD

A Snapshot of Current and Trending Teaching Multiple Graduate Sections Practices in Mobile Application with Large Class Sizes

 Development
 Nathan Eloe, Ajay Bandi, Denise Case,

 Michael Rogers/University of
 Aziz Fellah, Charles Hoot/Northwest Missouri

Wisconsin Oshkosh; Jonathan Gratch/ Texas State University Woman's University

Web Accessibility: An Evaluation of CCSC Central Plains Participant's University Homepages

Michael Whitney, Stephen Dannelly Winthrop University

5:00 - 5:30 pm Meet and Greet

LOCATION: Breech Student Lounge

5:45 - 8:00 pm Banquet

How the Pandemic Has Changed Talent Management Keynote: Mark Garton, O'Reilly Auto Parts Stores, Inc.

LOCATION: The Robert W Plaster Family Gallery/O'Reilly Event Center



## Schedule of Events Saturday, April 2, 2022

8:30 - 9:00 am

**Poster Contest Setup** 

**LOCATION: Wilhoit Theatre Vestibule (South entrance Breech)** 

9:00 - 10:00 am

**Student Papers** 

**LOCATION: Breech 105** 

**Moderator TBD** 

**Poster Contest** 

**LOCATION:** Wilhoit Theatre Vestibule (Breech)

**Moderator TBD** 

10:00 - 10:30 am

**Break and Vendor's Exhibits** 

**LOCATION: Breech Student Lounge** 

10:30 - 11:30 am

**Papers** 

LOCATION: Breech 103

Moderator TBD

A Literature Review on User Acceptance of Al-Enabled Application

Gary Yu Zhao/Dakota State University Cindy Zhiling Tu/Northwest Missouri State University

A Functional Programming Course In Remote Learning Model: An Experience Report Fahmida Hamid/New College of Florida "Nifty Assignments"/Lightning Talks

LOCATION: Breech 102 Moderator TBD

A Way to Visualize Higher Dimensional Arrays, Matrices and Spaces

Cong-Cong Xing/Nicholls State University Jun Huang/Baylor University

11:45 am - 12:45 pm CCSC Business Meeting/Luncheon

**LOCATION: The Robert W Plaster Family Gallery/O'Reilly Event Center** 

**Programming Contest Meeting/Luncheon** 

LOCATION: The Robert W Plaster Family Gallery/O'Reilly Event Center

1:00 - 5:00 pm Programming Contest

**LOCATION: Springfield Hall (second floor) Lab A** 

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