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 pre-conference 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.
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.
Pre-conference Workshop

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

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 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.
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 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  
LOCATION: Breech 103  
Moderator TBD  
Integrating Data Science Into a Computer Science Curriculum  
Kian Pokorny/McKendree University  
How to Secure ABET Accreditation for a Cybersecurity Program: A Case Study  
Xiaodong Yue, Belinda Copus, Hyungbae Park/University of Central Missouri  

2:15 - 3:15 pm  Panels  
LOCATION: Breech 102  
Moderator TBD  
Challenges Developing and Teaching Online Professional Courses for Technical Graduate Programs  
Denise Case, Ajay Bandi, Nathan Eloe, Aziz Fellah, Charles Hoot/Northwest Missouri State University

3:15 - 4:00 pm  Break and Vendor’s Exhibits  
LOCATION: Breech Student Lounge

4:00 - 5:00 pm  Papers  
LOCATION: Breech 103  
Moderator TBD  
A Snapshot of Current and Trending Practices in Mobile Application Development  
Michael Rogers/University of Wisconsin Oshkosh; Jonathan Gratch/ Texas Woman’s University  
Web Accessibility: An Evaluation of CCSC Central Plains Participant’s University Homepages  
Michael Whitney, Stephen Donnelly Winthrop University  

4:00 - 5:00 pm  Panels  
LOCATION: Breech 102  
Moderator TBD  
Teaching Multiple Graduate Sections with Large Class Sizes  
Nathan Eloe, Ajay Bandi, Denise Case, Aziz Fellah, Charles Hoot/Northwest Missouri State 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  
"Nifty Assignments”/Lightning Talks  
LOCATION: Breech 102  
Moderator TBD

A Literature Review on User Acceptance of AI-Enabled Application  
Gary Yu Zhao/Dakota State University  
Cindy Zhiling Tu/Northwest Missouri State University

A Way to Visualize Higher Dimensional Arrays, Matrices and Spaces  
Cong-Cong Xing/Nicholls State University  
Jun Huang/Baylor University

A Functional Programming Course In Remote Learning Model: An Experience Report  
Fahmida Hamid/New College of Florida

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

Thank You to Our Sponsors

Platinum Level
Google for Education

Bronze Level
NSF National Science Foundation

Local Level
MERCY College
MERCY GLOBAL LEARNING AND INFORMATION
FOXHOLE TECHNOLOGY

Google for Education
National Science Foundation
MERCY College
MERCY GLOBAL LEARNING AND INFORMATION
FOXHOLE TECHNOLOGY
Drury University

Visitor parking is available on Drury Lane and Bumhart Circle. Visitor permits are available at:
- Admission Office (Day Hall)
- Security sub-station (College Park)
- Security Office (First Year Center)
Without a valid visitor permit you are limited to 30 minutes of parking.

Bay Hall / Welcome Center

Other buildings:
2. Snow Chapel
3. Barnhart Hall
4. Pearson Hall
5. F.W. Olin Library
6. Lay Hall
7. Malone Performing Arts Center
  - O’Brien Music Center
  - Clark Thompson Hall
8. Ledy Hall
9. Sunderland Hall
10. Historic President’s House
11. Marley Hall
12. Dan and Ruth Martin Alumni Center
13. Jefferson Park
14. College Park
  - Springfield Police Department
  - Springfield Fire Department
15. Sigma Pi House
16. Kappa Alpha House
17. Lambda Chi Alpha House
18. Sigma Nu House
19. Congregational Hall
20. The Pearson, Houston House
21. Summit Park
22. Smith Hall
23. Wallace Hall
24. Findley Student Center
  - D. C. Bly Office
25. Freeman Field Hockey/Fieldball Hall
26. Harcum HPER
27. O’Reilly Family Fitness Center
28. Springfield Hall
29. Springer Science Center
30. Roche School of Business Administration
  - Wiibmo Theatre
31. Harrison Stadium
32. Theatre Shop
33. Pool Area
34. Facilities Services
35. Robert Wernick Faculty Studios
36. Currie Sports Complex
37. Drury Law Enforcement Academy
38. Hammons School of Architecture
39. Trunic Science Center
40. Drury Diversity Center at Historic Washington Avenue Baptist Church
41. Shawmaker Communication Center
42. University Suites
43. Rose O’Neill House
44. Freeman
45. Smith
46. Wallace
47. College Park
48. Freeman
49. Smith
50. Hammons
51. HPER
52. Webster
53. Benton
54. Summit
55. Clay
56. Parsonage
57. Facilities