UNK Tech EDGE 2019 Spring Conference

Innovation, Technology and Computer Science in Education

FEB 09 Saturday, February 9, 2019

🕐 7:30AM – 1:30PM

📍 UNK College of Education

UNKTechEDGE

Tech EDGE is FREE and open to educators, but registration is required. Register for Tech EDGE.

WIRELESS ACCESS
Username: unktechedge@unk.edu
Password: 362698

WELCOME: Sheryl Feinstein, Dean College of Education

KEYNOTE SPEAKERS: **Jennifer Rosato**, Director, National Center for Computer Science Education. **Chery Lucarelli**, Facilitator of Educational Innovation, The National Center for Computer Science Education.

SCHEDULE OVERVIEW

7:30 - 8:30 AM	Registration, Continental Breakfast	College of Education Atrium
8:30 - 8:45 AM	Welcome	College of Education Atrium
8:45 - 9:30 AM	Keynote Speakers	College of Education Atrium
9:45 - 10:30 AM	Session 1 (A, B, C)	College of Education
10:45 - 11:30 AM	Session 2 (A, B, C)	College of Education
11:45 - 12:30 PM	Session 3 (A, B, C)	College of Education
12:30 - 1:30 PM	Lunch	College of Education Atrium

CONFERENCE PROGRAM:
http://www.unk.edu/academics/coe/unk-tech-edge-conference.php

REGISTRATION:
https://cehs.unl.edu/tlte/techedge/registration-sp-2019/

For more info about Tech EDGE Conferences, visit
https://cehs.unl.edu/tlte/techedge/

Google CS4HS 2017-2018

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KEYNOTE SPEAKERS

Chery Lucarelli
Facilitator of Educational Innovation
The National Center for
Computer Science Education

Professor and Chair of Graduate Education Programs, Dr. Lucarelli oversees several graduate education programs, including the nationally ranked online Master of Education program and the Graduate Teacher Licensure program at the College of St. Scholastica. Dr. Lucarelli is committed to supporting inclusive learning and work environments, believing they provide the best opportunity for innovation. Dr. Lucarelli is the PI on the TeachCS@CSS grant funded by Google and the Co-PI on a National Science Foundation CS10K grant to scale up CS teacher professional development by leveraging online communities of practice. She is an experienced K12 teacher and licensed school administrator. Her research interests include innovation in higher education, online learning, educational technology, teacher preparation and teacher professional development.

Jennifer Rosato
Director
The National Center for
Computer Science Education

Jennifer Rosato leads programs at the Center, collaborating with staff and colleagues in the Schools of Business and Technology and Education. She has an undergraduate degree in Biochemistry from St. Scholastica and a Masters of Arts in Information Systems Management from Carnegie Mellon University. She is committed to involving more women and underrepresented minorities in the CS field, especially young women in middle and high schools as well as supporting K-12 educators to integrate and offer computer science in their classroom. She directs and consults on multiple grants from the National Science Foundation, Google, and Infosys Foundation, USA as well as serves on the CSTA Board of Directors.

CSforAll
Students = CSforAll Teachers: Driving Educational Change

The CSforAll national movement calls out the need for computer science literacy for all K12 children. This work requires a focus on equity and broadening participation in computer science, which will not happen without the involvement of teachers. To accomplish this ambitious goal, we need to create supportive systems that enable CSforAll teachers. As part of our session, we will share key strategies and systematic change models that can facilitate professional development and coaching for preservice and inservice teachers, regardless of licensure area. If we want to create computer science educational experiences that are accessible to all K-12 students, we must create opportunities and environments that support teachers as well.

UNK Tech EDGE Spring 2018 Conference

| 7:30 - 8:30 AM | | Registration & Continental Breakfast | College of Education Atrium |

8:30 - 8:45 AM **Welcome** Sheryl Feinstein, Dean College of Education **COE Atrium**

8:45 - 9:30 AM **Keynote Speakers**

Jennifer Rosato **COE Atrium**
Director, The National Center for Computer Science Education
Chery Lucarelli
Faciliator of Educational Innovation,
The National Center for Computer Science Education
CSforAll Students = CSforAll Teachers: Driving Educational Change

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10:45 - 11:30 PM **Session 1 A**

Beth Kabes **Flexible Room**
Director, Blended and Distance Learning,
ESU Coordinating Council
Take a Look into a Blended Learning Classroom

What's is blended learning? How is it different than a traditional classroom? Beth will review three key steps to blending a classroom. She will be sharing examples and tips to start blending. Participants will want to bring a technology device and an open mind about change in your classroom.

10:45 - 11:30 AM **Session 2 A**

Matt Millan, PhD **Flexible Room**
Assistant Professor, Cyber Systems, UNK
Cybersecurity for every classroom

This presentation will address different levels of computer science and cybersecurity learning activities for students from Kindergarten to 12th grade.

11:45 -12:30 PM **Session 3 A**

Chase Christensen, Overton High School **Flexible Room**
Randa Felske, Cedar Hollow School
Darren Hanson, Lexington High School
Giving Your Students the EDGE with Computer Science

In this fast-paced and fear-free session for teachers new to Computer Science, you will learn what CS is, why it is important, and how to easily incorporate lessons and activities into your daily curriculum. Appropriate for students and teachers of all ages and backgrounds, your classroom is ready for Computer Science!

11:45 - 12:30 PM **Session 2 C**

Brett Kluver **Conference Room 154**
Middle School Math and Reading, Gibbon Public Schools
Management of Technology in the Classroom

In this presentation, you will learn some tips for managing your classroom while your students use iPads, Chromebooks, laptops, etc. You will also learn about some of the tools that I use on a daily basis with my students to keep them engaged in their learning.

10:45 - 11:30 PM   **Session 2 B**   Analisa McMillan   **Conference Room 154**

Director, Distance Learning
University of Nebraska Medical Center
Peggy Moore
Director of E-Learning University of Nebraska Medical Center
Designing & Managing MOOCs

Have you ever considered creating a MOOC? Are you a faculty member or an instructional designer interested in MOOCs? If so, then this session is for you! We will share our experiences in designing the UNMC MOOCs, as well as some of the lessons we learned along the way. In addition to the design stages, we will discuss how the UNMC faculty manage the delivery of their MOOCs on Coursera.

11:45 - 12:30 AM   **Session 3 B**   Sherri Harms, PhD   **Conference Room 154**

Dept. Chair, Cyber Systems, UNK

CS in a Box

The workshop introduces computational thinking, and the computer science big ideas of creativity, algorithms and programming through the use of the "CS in a Box" activities. Teachers will be introduced to several fun activities they can use in their own classroom, that do not require the use of a computer.

9:45 -11:30 AM   **Session 1 C & 2 C**   Jennifer Rosato   **C 104 Computer Lab**

Director, The National Center for Computer Science Education
Chery Lucarelli
Faciliator of Educational Innovation,
The National Center for Computer Science Education
Unplug It, Block It, & Build It: Computational Thinking in Action (Part 1)

In this session, participants will have the opportunity to participate in fun and engaging hands-on experiences. They will be able to examine computational thinking and computer science concepts by actively participating in stations during the workshop session.

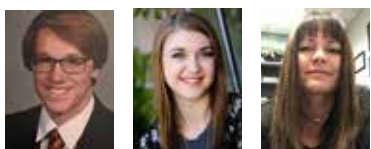**Unplug It, Block It, & Build It: Computational Thinking in Action (Part 2)**

This workshop is intended for teachers in any content field in grades K-12 who would like a hands-on introduction to the basics of computational thinking and computer science. It is also relevant for coaches or curriculum specialists who work with new CS teachers.

11:45 -12:30 PM   **Session 3 C**   Noah Journey   **C 104 Computer Lab**

Secondary Ed, Pre Service Teacher, UNK
Ashley Pachta, Elementary Ed, Preservice Teacher, UNK
Martonia Gaskill, PhD, Assitant Professor of Education, UNK
Put learning on the map with Google Earth, Tour Builder and other mapping tools from Google

We live in the amazing Planet Earth! Google Maps are an excellent way to help students understand and explore our big world. With Google Maps and Tour Builder students can travel the world and explore the all the beauty and the amazing places on earth. In this session, UNK Pre-Service teachers will demonstrate how these tools work and ideas to integrate them into daily learning. You'll learn how to use mapping tools to help students explore and travel to places without leaving the classroom.

12:30 - 1:30 PM   **Lunch**   **Conference Rooms 154, 155, 156**

THANK YOU!

To learn about Tech Edge please visit
https://cehs.unl.edu/tlte/techedge/

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Tech EDGE UNK Committee Members

Sherri Harms, UNK Computer Science
Guy Trainin, UNL Teaching, Learning & Teacher Ed
Chris Knoell, UNK Teacher Education
Tommy Hansen, UNK Teacher Education
Vic Young, UNK Teacher Education
Martonia Gaskill, UNK Teacher Education