



ROCKY MOUNTAIN *celebration*
of *women* in computing

AN ACM CELEBRATION EVENT

November 1 & 2, 2018

Sheraton Denver West, Lakewood,

CO



Thursday's Schedule - Registration begins at 2:30 PM, Assembly Area

3:30–4:20 PM (Workshops and Panels)	Workshop: Accessible Computer Science Education (Morrison)	Panel: Diverse Pathways to Technology: What Careers in Tech Look Like (Golden)	Workshop: Resume Tips to Get the Job You Want! (Bergen Park)
3:30-5:20 PM (Activities)	Drone racing (Mt. Vernon)	Makerspace (Green Mountain)	Virtual Reality (Lookout Mountain)
4:30-5:20 PM (Workshops)	Programming Workshop: Intro to Programming Workshop -- Ruby & HTML (Morrison)	Workshop: Pitch Perfect: Crafting an Effective Introduction (Golden)	Workshop: Want to Ace Your Tech Interview? (Bergen Park)
5:30-6:20 PM	Poster Fair / General Networking / Demos / Reception (Assembly Area)		
6:30-7:50 PM Banquet & Keynote Speaker	Screening - The Computers: the Remarkable Story of the ENIAC Programmers Kathy Kleinman, ENIAC Programmers Project Founder, Historian and Author, will join us virtually to discuss her work and answer questions. (Lakewood Ballroom)		
8:00–9:00 PM	Education Fair and Dessert (City Lights I)		

9:00–10:30 PM	Programming Workshop: Bring your laptop, install FreeBSD, and learn how to contribute to open source! Deb Goodkin and Roller Angel (Green Mountain)
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Friday's Schedule - Registration begins at 7:30 AM, Assembly Area

8:00-8:45 AM	Mentoring Breakfast (Lakewood Ballroom)		
9:00-9:50 AM	Plenary Panel: My Path to Entrepreneurship (Lakewood Ballroom)		
9:50 AM	20 min Morning Snack (Assembly Area)		
10:10-11:00 AM (Panels & Workshops)	Workshop: Using Design Thinking to balance and bridge CS with your other interests (Morrison)	Panel: Demystify Your Career (Golden)	Workshop: Leading Conversations about Microaggressions, Bias, and Other Nonsense (Bergen Park)
10:10-11:00 AM (BOFs)	Imposter Syndrome (Mt. Vernon)	Undergraduate Research Challenges for Faculty & Students (Green Mountain)	Career & Education: When, Where, and Why? (Lookout Mountain)
11:00-11:10 AM	20 min Morning Break (Assembly Area)		
11:10-12:00 PM	Lightning Talks (Lakewood Ballroom)		
12:05-1:10 PM Lunch & Keynote	Navigating the Death Valleys to Reach the Meadows and Mountaintops Andrea Guendelman, co-founder of BeVisible (Lakewood Ballroom)		
1:10-1:30 PM	Photo (Atrium, weather permitting)		
1:40-2:30 PM (Paper Sessions & Workshops)	Graduate Student Talks 1 (Morrison)	Graduate Student Talks 2 (Golden)	Computer Science Is A Social Justice Issue (Bergen Park)
1:40-2:30 PM (BOFs)	Standardization of Ed Goals in Data Science-Related Fields (Mt. Vernon)	Project Management (Green Mountain)	Nobody Like Me: Raising Your Voice Without Making A Sound (Lookout Mountain)
2:40-3:30 PM (Paper Sessions)	Graduate Student Talks 3 (Morrison)	Graduate Student Talks 4 (Golden)	Graduate Student Talks 5 (Bergen Park)
2:40-3:30 PM (BOFs)	Women in Defense: Career Paths and Opportunities (Mt. Vernon)	Career Change 101 (Green Mountain)	THINK LIKE A GIRL! Embracing & Unleashing The Innate Power of the Female Brain In Male Dominated Fields of Study, Management and Industry (Lookout Mountain)

3:45-5:15 PM	Career Fair (City Lights I)
5:30-6:00 PM	Closing - Awards, Recognitions and Prizes (Lakewood Ballroom)

Day 1 – Thursday

Workshops 3:30 PM

Morrison

3:30 – 4:20 PM

Workshop: Accessible Computer Science Education

Program a scanner to locate hidden beacons or learn how to use one. We'll discuss how students and teachers completed these tasks, the underlying cybersecurity principles, & resources you can use for your own lab.

Leaders: Rasana Manandhar, Fiona Moss, Madison Cooley, Shaya Wolf, Andrea Burrows and Mike Borowczak (*University of Wyoming*)

Golden

3:30 – 4:20 PM

Panel: Diverse Pathways to Technology: What Careers in Tech Look Like

Join us to learn about how three inspiring females got into the tech field, what educational training they took to get there, and how their roles as engineers and leaders have shifted over time.

Moderator: Courtney Haynes (*The Turing School of Software & Design*)

Panelists: Ellen Cornelius, (*P2BInvestor*); Kristi Farley (*Lockheed Martin*), Cristal Tay, (*Amazon*)

Bergen Park

3:30 – 4:20 PM

Workshop: Creating a Resume that Speaks to the Company You Want!

Learn how to format your resume so that your skills and experience will stand out, use verbs that will add impact to your accomplishments.

Leader: Lindsey Sittko, Human Resources (*FAST Enterprises, LLC*)

Activities 3:30 PM

Mt. Vernon

3:30 – 5:20 PM

Drone racing

Race a drone through a course! Visit the room to sign up for 5 min slots.

Green Mountain

3:30 – 5:20 PM

Makerspace

See a color-changing scarf, a dress that lights up when it moves, and a necklace with color LEDs! Build an LEDy Bug and learn how electricity flows through a simple circuit – visit the room to sign up for 30 minute slots.

LEDy Bug kits provided courtesy of Intel Corporation.

Lookout Mountain

3:30 – 5:20 PM

Virtual Reality, led by Kellyn Dassler

Visit the room to sign up for 5 minute slots to demo an HTC Vive! VR demo courtesy of CSU. Play with an interactive robot courtesy of School of Mines!

Workshops 4:30 PM

Morrison

4:30 – 5:20 PM

Programming Workshop: Intro to Back End Programming

Join us to learn and apply exactly what back-end programming is and its significance! Bring your laptop.

Facilitators: *Haley Mesander and Sabrina Robinson (The Turing School of Software & Design)*

Golden

4:30 – 5:20 PM

Workshop: Pitch Perfect: Crafting an Effective Introduction

Does the thought of pitching yourself make you cringe? Want to learn how to relay your skills and strengths authentically? Come and learn to craft an effective elevator pitch that feels comfortable and unique to you!

Leader: *Stacey Stevens, (University of Denver)*

Bergen Park

4:30 – 5:20 PM

Workshop: Want to Ace Your Tech Interview?

Are you gearing up for technical interviews? Whether you're interested in internships or full-time software engineering roles, you may want to brush up on those interview skills. Join us for mock questions and tips! This interactive workshop will focus on skills for software engineering interviews.

Leaders: *Holly Whitney and Lauren Brown (Google)*

Poster Session / Networking / Demos 5:30 PM

Assembly Area

5:30 – 6:20 PM

Poster Session and Demos

Shadow Lens Demonstration: Tactical Multi-INT Sensor Fusion (*LGS Innovations*)

Student Computing in Spacecraft Operations (*Elysia Lucas and Grace Edwards, LASP, University of Colorado*)

User-Friendly Interface for PBPK Analysis and Simulation (*Vidya Gaddy, Minkyung Shin, Sudipto Ghosh and Brad Reisfield, Colorado State University*)

Learning from Self-Reported Twitter Data by FastText with Sample Selection Bias Correction (*Madison Cooley, Hui Hu and Chao Lan, University of Wyoming*)

Active Learning with Regularized Social Disparity (*Negar Sami and Chao Lan, University of Wyoming*)

Multidimensional Scaling on Infinite Metric Spaces (*Lara Kassab, Colorado State University*)

Peace Through Superior Puzzling: An Asymmetric Sybil Defense (*Diksha Gupta, University of New Mexico*)

Banquet Keynote – Kathy Kleinman 6:30 – 7:45 PM

Lakewood Ballroom **The Computers: The Remarkable Story of the ENIAC Programmers**



Kathy Kleinman

Kathy Kleiman discovered the ENIAC Programmers as an undergraduate looking for role models in computer science. She became friends with four of the ENIAC 6 – the six women who programmed ENIAC (world's first all-electronic, programmable, general-purpose computer) as part of a secret WWII project. Her oral histories of Jean Jennings Bartik, Marlyn Wescoff Meltzer, Betty Snyder Holberton and Kathleen McNulty Mauchly Antonelli will shortly be on their way to the archives at Harvard. Her documentary *The Computers: the Remarkable Story of the ENIAC Programmers* premiered at the Seattle International Film Festival and won Best Documentary Short at the United Nations Association Film Festival. It is being shown at schools, colleges and companies around the world.

When not sharing stories of women programming pioneers, Kathy is a lawyer in the field of Internet law and policy. She helps to negotiate the rules for the global domain name system as part of ICANN (Internet Corporation for Assigned Names and Number). This year she is a Visiting Scholar at Princeton University's Center for Information Technology Policy.

Education Fair and Dessert 8:00 PM

City Lights I

8:00 – 9:00 PM

Education Fair: Here are some of the organizations present:

Colorado College

The Turing School of Software & Design

Colorado School of Mines

University of Colorado Boulder

Colorado State University

University of Denver

HP Inc.

University of Wyoming

NCWIT

Programming Workshop 9:00 PM

Green Mountain

9:00 – 10:30 PM

Getting Started with FreeBSD

Please bring a laptop/notebook computer, with Virtualbox installed, available here: <https://www.virtualbox.org/>

Deb Goodkin and Roller Angel (*Free BSD Foundation*)

Day 2 - Friday

Mentoring Breakfast 8:00 AM

Lakewood Ballroom 8:00 – 8:45 AM Look for a table with a topic of interest and join in the conversation! Mentors will be seated at every table.

Plenary Panel Discussion 9:00 AM

Lakewood Ballroom **My Path to Entrepreneurship**

9:00 – 9:50 AM

Four chief executive officers share their story and discuss a variety of topics: What is entrepreneurship, and why should you consider it as a career path? What are some of the important characteristics of entrepreneurs? What does it take to start your own company? What are the risks and rewards of being your own boss?

Moderator: Andrea Guendelman, CEO (*Bevisible.soy, Wallbreakers*)

Panelists: Carol Carter, CEO (*GlobalMindED*), Amelia Coomber, CEO (*BB & Co*), Toi Massey, CEO (*The JEKL Foundation for Science, Technology, Engineering, Art & Mathematics*)



Andrea Guendelman



Carol Carter



Amelia Coomber



Toi Massey

Break 9:50 AM

Panel Discussions and Workshops 10:10 AM

Morrison

10:10 – 11:00 AM

CSU RMCWiC Un-Panel and Workshop: Using Design Thinking to balance and bridge CS with your other interests

This un-panel/workshop will share how CSU computer science students used design thinking to tackle an important problem that they identified and wanted to take head on at our university. We will flip back and forth between the panel sharing their experience and gathering workshop ideas from the participating audience, who will have the chance to use design

thinking strategies to identify areas of interest in their own lives they want to improve and connect.

Moderator: Claire Goldstein (*Colorado State University*)

Panelists and Workshop Leaders: Maritza Gonzalez, Kellyn Dassler, Minkyung Shin, Ariana Mims, Kristina Brown, and Elisa Cundiff (*Colorado State University*)

Golden

10:10 – 11:00 AM

Panel: Demystify Your Career

Interested in how to build a great career? Join us as Salesforce Employees share their personal stories and career journeys. You'll learn about what they wish they had known, how to be your most confident self, and how to take risks. Get inspired and learn valuable tips to help you navigate and create your dream career.

Moderator: Heather Dykstra, Developer Evangelist (*Salesforce*)

Panelists: Natasha Gupta, Software Engineering Architect (*Salesforce*); Karen Fidelak, Product Management Director (*Salesforce*); Lisa Morgan Senior Manager, Software Engineering (*Salesforce*); Neha Ahlawat, Software Engineer, Member of Technical Staff (*Salesforce*)

Bergen Park

10:10 – 11:00 AM

Workshop: Leading Conversations about Microaggressions, Bias, and Other Nonsense

This workshop seeks to help attendees from universities and industry to build their capacity to address and respond to bias in their academic environments. Most importantly, the workshop will prepare attendees to replicate this session at their organizations.

Leaders: Catherine Ashcraft (*NCWIT*) and Helen Hu (*Westminster College*)

Birds of a Feather 10:10 AM

Mt. Vernon

10:10 – 11:00 AM

Imposter Syndrome

Ever feel like you are “in over your head” or surrounded by a sea of others who “have it all together”? Join the club. Many very successful women feel the exact same way. In this BoF, we will have a guided open discussion about tackling the ever-present imposter syndrome! We want to empower you to be able to say “I am excited” as you walk into an intimidating situation, how you can twist your thinking and know that “you don’t have to

feel confident to act confident”. Walk away with at least 10 things you can do to help stop thinking like an imposter!

Leader: Wendy Fisher (*Colorado School of Mines*)

Green Mountain
10:10 – 11:00 AM

Undergraduate Research Challenges for Faculty and Students

Faculty often find themselves unprepared to mentor undergrad students in a research project, and students may not understand what undergraduate research in computer science entails. Students may believe that research is beyond their abilities, when designing an app that creatively solves a problem could be a perfect research project for them. We will discuss how to mentor, engage, and prepare students in undergraduate research. We will also address maintaining consistent undergraduate research, including resources for funding and current successful models.

Leader: Sherri Harms (*University of Nebraska at Kearney*)

Lookout Mountain
10:10 – 11:00 AM

Career & Education: When, Where, and Why?

With so many education options, what is the right path and timing to meet your career goals (if you have them yet)? When might you consider coding boot camps vs. undergrad? And, what about graduate school? We will discuss educational paths and careers, and highlight how paths can be windy and look different for everyone.

Leader: Natalie Garrett (*University of Colorado, Boulder*)

Lightning Talks 11:10 AM

Lakewood Ballroom
11:10 AM – 12:00 PM

Oracle Academy: What's in It for You?

Alison Derbenwick Miller (*Oracle Academy*)

FAST Enterprises – Live Life in the Fast Lane

Nicole May (*FAST Enterprises*)

Is It OK if Police Read Your Texts?

Cathy Durso (*University of Denver*)

Your future as a computer scientist

Bobby Schnabel, CS Dept. Chair (*University of Colorado, Boulder*)

Memory Driven Computing Drives New Computer Science

Brianna Havlik (*HP Enterprises*)

CS 0 and CS 1 in one semester

Victoria Eisele (*Front Range Community College*)

What your body language says and how to body-speak what you intend

Elizabeth Boese (*University of Colorado, Boulder*)

Recruiting and retaining women in CS at the University of Utah

Erin Parker (*University of Utah*)

Why You Should Contribute to the FreeBSD Project

Deb Goodkin (*Free BSD Foundation*)

Lunch Keynote – Andrea Guendelman 12:05 – 1:10 PM

Navigating the Death Valleys to Reach the Meadows and Mountaintops



Andrea Guendelman

After graduating from Harvard Law School and working at a non-profit focused on Hispanic education and as a corporate lawyer in New York, Washington, D.C., and New Mexico, Andrea started Common Pitch Chile in partnership with El Mercurio in 2012, Technologicas in partnership with NCWIT, Televisa Foundation in 2014, and most recently, BeVisible in 2015.

BeVisible is a social media career network that connects Latinos and Latinas across the country. For recruiters, Be Visible is making it easy to access a talented pool of individuals whom they already know self-identify as Latinx, something no other platform can do.

Andrea is currently launching Project Wallbreakers, an initiative to source, train, and connect the most talented software engineers in the nation graduating from college to the most progressive companies in the innovation economy.

Picture 1:10 PM – Meet in the Assembly Area

Graduate Student Talks / Workshops 1:40 PM

Morrison

1:40 – 2:30 PM

Graduate Student Talks 1 – Optimization and Machine Learning

Session Chair: Elizabeth Boese, *University of Colorado, Boulder*

Generic support vector machines and Radon's theorem (*Brittany Carr, Henry Adams and Elin Farnell, Colorado State University*)

Toward positivity, monotonicity and boundedness preservation characteristics of polynomial projections using constrained optimization approach (*Vidhi Zala, Akil Narayan and Robert M. Kirby, University of Utah*)

Convex Elicitation of Continuous Properties (*Jessica Finocchiaro and Rafael Frongillo, University of Colorado, Boulder*)

Golden

1:40 – 2:30 PM

Graduate Student Talks 2 – 21st Century Robots

Session Chair: Wendy Fisher, *Colorado School of Mines*

PAM: A Patient Assistant Mobile Robot for Fall Prevention (*Roya Sabbagh Novin, University of Utah*)

Data-Driven Control and Verification of Artificial Pancreas Systems
(*Taisa Kushner and Sriram Sankaranarayanan, University of Colorado, Boulder*)

Towards a Role-Based Framework for Moral Robots (*Ruchen Wen, Colorado School of Mines*)

Bergen Park

1:40 – 2:30 PM

Workshop: Computer Science Is A Social Justice Issue

From Wikipedia: "Social justice is a concept of fair and just relations between the individual and society. This is measured by the explicit and tacit terms for the distribution of wealth, opportunities for personal activity, and social privileges." In this workshop the speaker will frame computer science as a social justice issue and illustrate current challenges currently facing computing as a discipline and its products for which it fails to provide equity to women and historically marginalized populations. Participants will take part in activities to dig deeper into their understanding of the current "fairness" of computer science.

Leader: Scott Leutenegger (*University of Denver*)

Birds of a Feather 1:40 PM

Mt. Vernon

1:40 – 2:30 PM

BOF: Defining Data Science, Data Mining, Machine Learning, and Related Curricula: Standardization of Ed Goals in Data Science-Related Fields

The Big Data era has brought about significant shifts in the technological focus of many industries, leading to an increasing student interest in data science-related topics. Universities have responded to this increased demand by adding new minors, emphases, degrees, or programs in data science-related areas. However, we are still in the dawn of data science, and the connecting sub-fields: data mining, databases, machine learning, artificial intelligence, and computational statistics. The BoF aims to develop

an outline of material for the major data science-related fields, as well as the knowledge required of students planning to take these courses.

Leader: Veronika Strnadova-Neeley (*Montana State University*)

Green Mountain

1:40 – 2:30 PM

BOF: Project Management

As organizations grow and change, they must reevaluate their project management methods and outcomes. This BoF explores three themes: defining the scope of a project, agile project management, and personal time management. In order to define scope, participants will have the opportunity to identify product features and the steps necessary to render them. They will also learn to identify which elements may be outside the scope. We will use Asana to apply agile project management techniques to a software development scenario. Finally, we will touch on a few techniques for managing your own personal workflow, such as automation.

Leader: Catherine Konold (*Pentara Corporation*)

Lookout Mountain

1:40 – 2:30 PM

BOF: Nobody Like Me: Raising Your Voice Without Making A Sound

The ability to navigate unfamiliar waters and sometimes unwelcoming landscapes in order to advance and achieve may rely more on our softer skills than our academic strengths. Turning adversaries into advocates without compromising personal principles affords us the opportunity to expose one's unconscious biases and subconscious discouragements toward us without ever having to point them out. Tools for the student of color or anyone who has ever been made to feel isolated, excluded or 'un-included' while in pursuit of their personal best.

Leader: Toi Massey (*The JEKL Foundation for Science, Technology, Engineering, Art & Mathematics*)

Graduate Student Talks 2:40 PM

Morrison

2:40 – 3:30 PM

Graduate Student Talks 3 - Cybersecurity and the Cloud

Session Chair: Elizabeth Boese, *University of Colorado, Boulder*

Privacy-Aware Peak Load Reduction in Smart Homes (*Aarushi Sarbhai, Jacobus Van der Merwe and Sneha Kasera, University of Utah*)

All That Glitters Is Not Gold: All PDFs Are Not Benign And How To Identify A Malicious PDF (*Sai Himabindu Boddupalli, University of Colorado, Boulder*)

Virtual Redundancy for Active-Standby Cloud Applications (*Parisa Rahimzadeh, University of Colorado, Boulder*)

Golden

2:40 – 3:30 PM

Graduate Student Talks 4 – Wearables, VR, and CS Education

Session Chair: Wendy Fisher, *Colorado School of Mines*

iES: An “Invisible” Wearable Sensing System from Inside Human’s Ears (*Anh Nguyen and Tam Vu, University of Colorado, Boulder*)

Talk: Utilizing Virtual Reality Technology as a Chemistry Educational Medium (*Dalal Alrmuny, Mia Williams and Corina Brown, University of Northern Colorado*)

Accessible Computer Science Education (*Fiona Moss, Rasana Manandhar, Madison Cooley, Shaya Wolf, Andrea Burrows and Mike Borowczak, University of Wyoming*)

Bergen Park

2:40 – 3:30 PM

Graduate Student Talks 5 – Data Analysis and Security

Session Chair: Allison Morgan, *University of Colorado, Boulder*

Using Autoencoder to Generate Data Quality Tests (*Hajar Homayouni, Sudipto Ghosh and Indrakshi Ray, Colorado State University*)

An Extended Attribute Based Access Control for WorkFlows (*Rejina Basnet, Ramadan Abdunabi and Indrakshi Ray, Colorado State University*)

Exploratory Data Analysis from Survey of CS Faculty (*Allison Morgan, Samuel Way, Daniel Larremore, Mirta Galesic and Aaron Clauset, University of Colorado, Boulder*)

Birds of a Feather 2:40 PM

Mt. Vernon

2:40 – 3:30 PM

BOF: Women in Defense - Career Paths and Opportunities

DOD needs all different types of computer savvy people. Designers, Architects, programmers, testers, administrators, and lots of opportunity to expand & move once you get in. For some programs and positions there is a large percentage of travel. You can visit cities, bases, and country locations. Once you have a clearance there are several companies and locations for future job opportunities & growth.

Leaders: Penny Compton (*Lockheed Martin*), Kristi Farley (*Lockheed Martin*), and Kody Willman (*Raytheon*)

Green Mountain

2:40 – 3:30 PM

BOF: Career Change 101

Has your career hit a speedbump, roadblock, or a dead end, or are you interested in trying something new? Join us to talk with other attendees whose career goals have changed, taken off ramps, and/or persevered through job and skill changes to stay engaged and excited about a career in technology.

Leaders: Patty Lopez (*Intel Corporation*) and Siew Gin Mills (*Ball Aerospace*)

Lookout Mountain

2:40 – 3:30 PM

BOF: THINK LIKE A GIRL! Embracing & Unleashing The Innate Power of the Female Brain In Male Dominated Fields of Study, Management and Industry

There are wonderful gifts of intellect and deduction, amazing talents that we share as women that we have been made to believe we must ignore or denounce when moving into the tech world, characteristics that actually make us best suited for an industry whose many best solutions have been introduced by women who have not only allowed themselves to think like a girl but have inconspicuously influenced others to do the same.

Leader: Toi Massey (*The JEKL Foundation for Science, Technology, Engineering, Art & Mathematics*)

Career Fair 3:45 PM

City Lights I

3:45 – 5:15 PM

The following organizations will be represented:

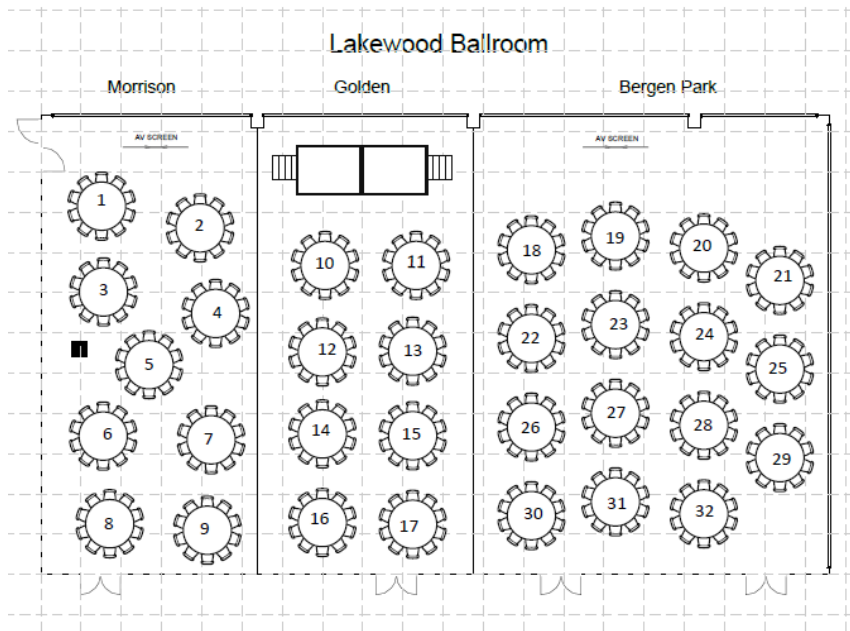
Amazon	Google	Raytheon
ATLAS Institute	HP, Inc.	Salesforce
CISL/NCAR	Intel Corporation	Univ of Colorado Boulder
Colorado School of Mines	LGS Innovations	University of Denver
Colorado State University	NASDAQ	University of Wyoming
Fast Enterprises	NCWIT	VMWare
Gogo Air	Piazza	

Closing 5:30 PM

Lakewood Ballroom Awards, presentations, closing.

Invitation to the next RMCWIC in 2020!

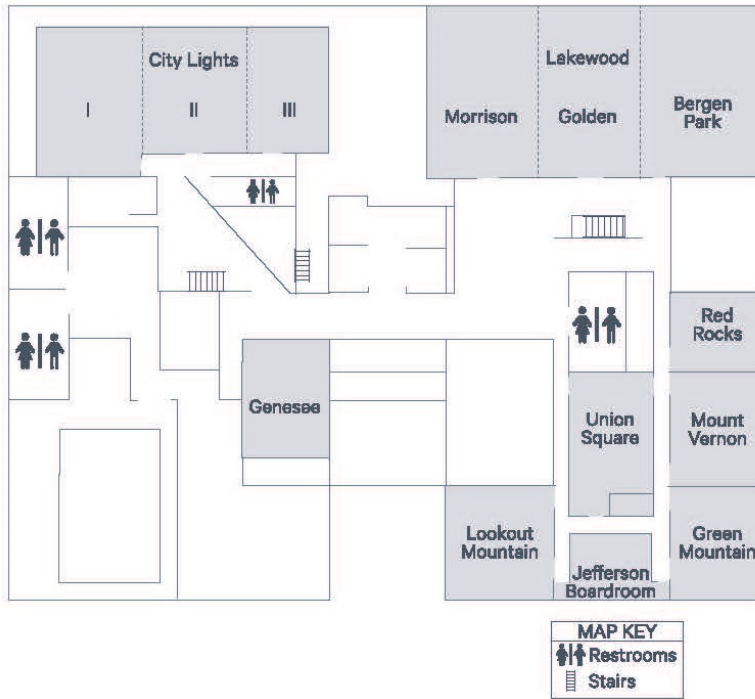
Mentoring Breakfast



Mentoring Topics (check the website for the latest topics)

Table	Topic	Table	Topic
1	Career paths in government or military	17	Work/life balance
2	Choosing the right career path	18	Work/life balance
3	Choosing the right career path	19	Work/life balance
4	Choosing the right career path	20	Work/life balance
5	Choosing the right career path	21	Gender issues in the workplace
6	Career paths in academia	22	Gender issues in the workplace
7	Career paths in academia	23	Gender issues in the workplace
8	Career paths in academia	24	Gender issues in the workplace
9	Career paths in academia	25	Gender issues in the workplace
10	Career paths in industry	26	What is computing research?
11	Career paths in industry	27	How can undergrads get involved in research?
12	Career paths in industry	28	Technical Topics: Information Systems
13	Developing interview skills	29	Technical Topics: Software Engineering
14	Choosing the right career path	30	Technical Topics: TBD
15	Work/life balance	31	Technical Topics: TBD
16	Work/life balance	32	TBD

Map of the Venue



2018 Conference Committee

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