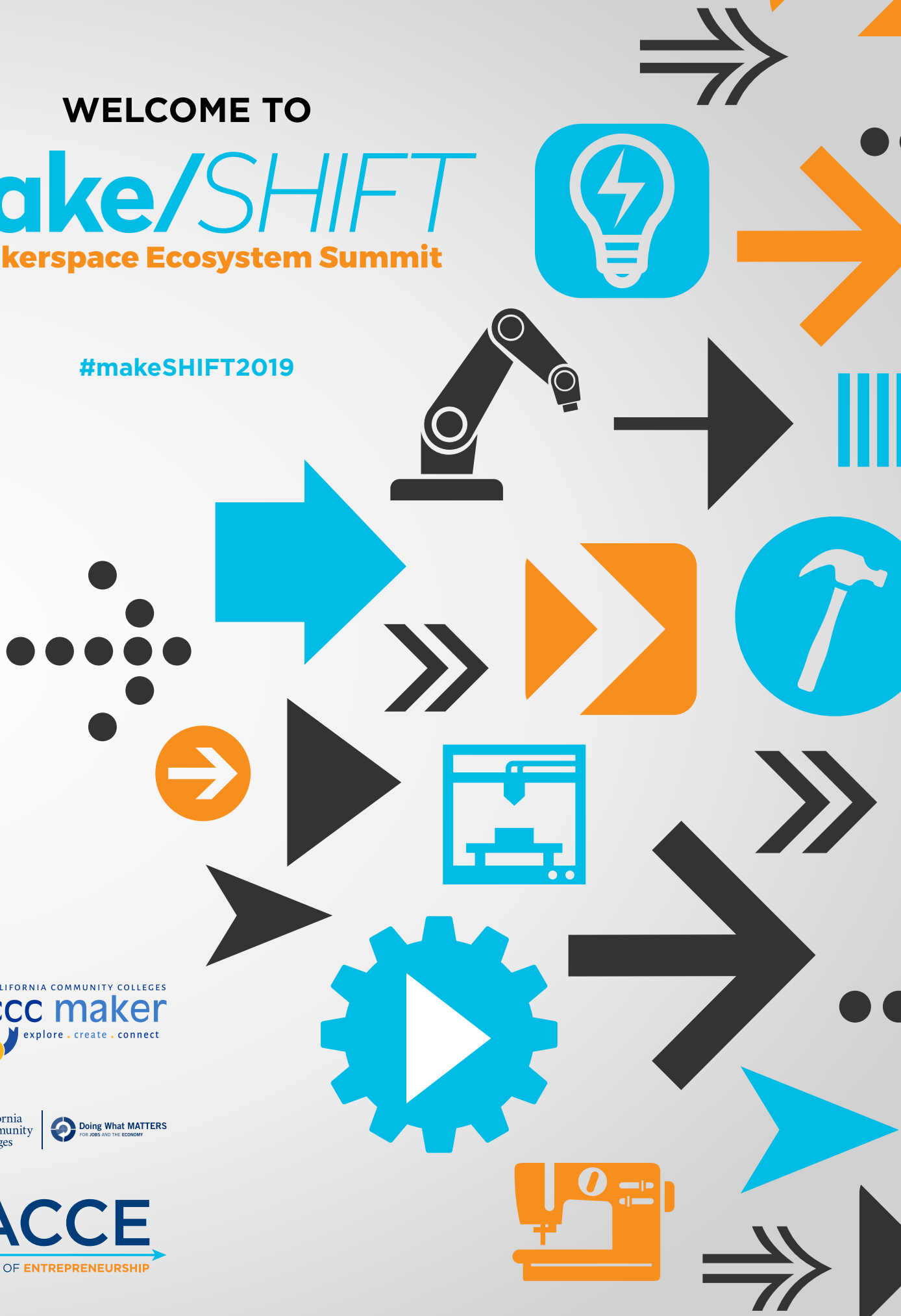


WELCOME TO  
**make/SHIFT**  
the Makerspace Ecosystem Summit

#makeSHIFT2019



# Agenda

## WEDNESDAY, APRIL 24

**10:00 AM - 3:00 PM**

Location: Theater Room

### **Internationalize your Community College! Preconference with MSU CIBER**

Join us for our preconference lead by Michigan State University's CIBER assistant director, Dr. Sarah Singer. Learn about new community college internalization benchmarking results, hear from fellow NACCE community college members on best practices, and leave with an action plan on how to take your community college from local to global! Lunch will be provided. A separate registration is required.

**5:30 PM - 7:30 PM**

Location: Foyer

### **Welcome Opening Reception**

Network with old and new friends and our exhibitors while enjoying light appetizers and refreshments.

**5:30 PM - 6:30 PM**

**Come and Visit the iMAKEMOBILE** by Moreno Valley College, located in the Hotel Irvine rear parking lot. The iMAKEMOBILE will also be open Thursday from 1:30 PM - 2:15 PM and 5:30 PM - 6:30 PM.

**6:30 PM**

Location: Salon ABC

### **CCC Maker Video Festival - Meet the Maker!**

Meet Michelle Zamora, filmmaker and founding Creative Director, Sacramento City College Makerspace. Michelle developed six short films highlighting CCC Maker colleges, as well as the MakerMatic model and advisor interviews. These videos, along with student and college videos from the CCC Maker Initiative will also be on a loop in the Theatre room throughout the day on Thursday.

## THURSDAY, APRIL 25

**7:00 AM - 8:15 AM**

Location: Foyer

### **Breakfast**

**7:15 AM - 8:00 AM**

Location: Theater

### **Breakfast Presentation: The Future of Making Begins Now**

We are in the midst of a new industrial revolution with new technologies driving major changes in the ways that things — from buildings and infrastructure to cars and consumer electronics — are made. New means of production such as microfactories and 3D printing, new types of Internet-connected products, and new consumer demands for locally made and sustainable products are posing serious disruptions to existing order. Companies need to adapt to thrive in this future, or risk being surpassed by more agile competitors. This breakfast presentation (20 Minute Talk & 20 Minute Demo) will address these trends, and delve into the new generation of cloud and mobile-based software that is helping companies take advantage of these tectonic shifts and succeed.

#### **Presenters:**

**Curt Chan, Account Manager, Engineering Education, Autodesk**

**John Peros, Technical Specialist, Engineering Education, Autodesk**

## THURSDAY, APRIL 25

**8:15 AM - 9:45 AM**

Location: Salon ABC

### Morning Main-stage Session

**Welcome to make/SHIFT** Dr. Rebecca Corbin, President & CEO, NACCE

**Celebrating Risk Taking & Innovation at Scale** Van Ton-Quinlivan, former Executive Vice Chancellor Workforce & Economic Development, California Community College Chancellor's Office

**A World of Our Making** Dale Dougherty, Founder & CEO, Maker Media

**10:00 AM - 10:45 AM**

Location: Saddleback

### Breakout Session 1

#### Track A MAKERSPACE

**First Steps Towards Creating Your Makerspace** Our panelists will describe why student equity, access and diversity became the focus of their college makerspace projects, and how they used this goal to inform their makerspace plans, motivate their community and accelerate implementation. Using their experience in the CCC Maker Start-up process, and with reference to Design Thinking and the online CCC Maker Start-up Guide, our panelists will offer specific steps you can take to identify a community need that will initiate and grow your unique makerspace solution.

#### Moderator:

**Brie Lindsey Ph.D, Senior Program Associate, California Council on Science and Technology**

#### Panelists:

**Tom Cappelletti, Faculty Lead and Project Director, SCC Makerspace, Sacramento City College**

**Maura Devlin, Faculty Lead and makerSPHERE Coordinator, City College of San Francisco**

**Nicole Shuman, Student and Makerspace Team Lead, Innovation Center, Folsom Lake College**

Location: Pelican Hill

#### Track B ENTREPRENEURSHIP

**Mindset: The Hidden Secret to Fab Lab & Makerspace Success** Designed to spur innovation, collaboration and learning, Fab Labs and Makerspaces are popping up in educational institutions across the country and around the world. Yet many are struggling to reach their full potential. In this session, author and ELI Founder Gary Schoeniger will explore some of the hidden factors that lead to fab lab and makerspace success.

#### Presenters:

**Thomas Paccioretti, Assistant Professor of Entrepreneurship, Santa Monica College**

**Gary Schoeniger, Founder & CEO, The Entrepreneurial Learning Initiative**

## THURSDAY, APRIL 25

Location: Trabuco

### Track C IMPACT

**Makerspace Ecosystems - The Key to Networks and Pathways** Leverage your makerspace to create dynamic networks and pathways in education and workforce development that engage your ecosystem to support students in reaching their educational and career goals. This panel will define makerspaces as an indispensable resource for accelerating career exploration and preparation, facilitating entrepreneurial and soft skills development, and supporting academic success to yield stronger student and institutional outcomes. Identify opportunities to push your makerspace connections with K-12 and community programs, welcome life long learners, and support college transition and transfer, to produce innovation ready graduates for the workforce of the future.

**Moderator:**

Salomon Davila, Technical Assistance Provider, CCC Maker

**Panelists:**

Katherine Bergman, JD, Guided Pathways Regional Coordinator, Bay Area, California  
Community College Chancellor's Office

Lauren Penney, Making Spaces Program Manager, MakerEd

Ted Thompson, Ed.D., VP Engagement & Implementation, Network for Teaching  
Entrepreneurship

11:00 AM - 11:45 AM

Location: Saddleback

### Breakout Session 2

#### Track A MAKERSPACE

**Growing Your Makerspace Ecosystem** Grow your supportive community to create a makerspace that is more than just a "room full of tools." With community partnerships, faculty engagement and campus resource alignment, these makerspace leaders formed strategic alliances and facilitated community collaboration. Learn how to transform initial resistance into enthusiastic advocacy to kickstart, grow and sustain your vibrant makerspace ecosystem.

**Moderator:**

Carol Pepper-Kittredge, Statewide Project Director, CCC Maker

**Panelists:**

Robert Mabry, Project Director, Central Coast Makerspace Network, Allan Hancock College

Maggie Frankel, MLIS, Reference Librarian, Collaboratory, City College of San Francisco

Ana McClanahan, Dean of Science, Technology, Engineering, Art, and Mathematics,  
College of Alameda

## THURSDAY, APRIL 25

Location: Pelican Hill

### Track B ENTREPRENEURSHIP

**Makerspace Student Panel** Hear from CCC Maker students from across the state of California on how their experience with the entrepreneurial ecosystem has furthered their education and life paths. Discover the intersection between making and entrepreneurship and how colleges can support this interdisciplinary approach to experiential learning.

**Moderator:**

**Chuck Eason, Business and Entrepreneurship Sector Navigator, Workforce & Economic Development, California Community Colleges**

**Panelists:**

**Anthony Cheng, tote bags recycled from Surfrider Foundation canopies, Orange Coast College**

**Christian Espinoza, furniture maker, Sacramento City College**

**Leah Slyder Vass, chocolate maker, Laney College**

**Alliya Smith-Brown, artist, Sierra College**

Location: Trabuco

### Track C IMPACT

**The Makerspace as Innovation Platform** Switch on to the potential of makerspaces to drive collaboration and accelerate innovation across all campus stakeholders. This panel of college administrators will share how they are positioning their flexible, transdisciplinary spaces as working models for innovation across a range of institutional issues including resource allocation, workforce development, program redesign, regional alignment and funding. Integrate these insights to generate support for your makerspace within your college ecosystem.

**Moderator:**

**Amy Schulz, Ph.D, MBA, Dean of Career, Continuing, and Technical Education, Division of Business & Technology, Sierra College**

**Panelists:**

**John Gaulty Ed.D, Dean of Visual, Applied & Performing Arts, Cabrillo College**

**Melody Graveen Ed.D, Dean of Instruction, Career & Technical Education, Moreno Valley College**

**Dr. Theresa Fleischer Rowland, Associate Vice Chancellor, Instruction, City College of San Francisco**

12:00 PM - 1:30 PM

Location: Salon ABC

### Luncheon & Afternoon Main-stage Session

**Why Community College Makerspaces Are a Critical Part of Our Innovation Wetlands and How We Can Continue To Cultivate Them.**

Stephanie Santoso, Director of Maker Initiatives, Citizen Schools

Makerspace Student Panel of CCC Maker Students:

Ruben Bravo, CCC Maker Student, Hartnell College

Connor Challis, CCC Maker Student, Sierra College

Patrick Gagnon, CCC Maker Student, College of the Canyons

Dunia Hijaz, CCC Maker Student, Moorpark College

Nicole Shuman, CCC Maker Student, Folsom Lake College

## THURSDAY, APRIL 25

### 1:30 PM - 2:15 PM

Location: Foyer

#### Coffee, Dessert & Networking

Enjoy a sweet treat or two while engaging with our exhibitors, including entrepreneurial organizations and makerspace colleges and students participating in the CCC Maker Initiative.

Have you visited the Moreno Valley College (MVC) Mobile Innovation Center yet? Now is a great time to do so! It is parked on-site at Hotel Irvine. MVC's iMake Mobile Innovation Center serves individual and collaborative groups of learners. The college fosters STEM diversity through attention to the cultural backgrounds of students and their educational needs. STEM activities involve hands-on, multidisciplinary labs and multi-media technologies.

### 2:30 PM - 3:15 PM

Location: Saddleback

#### Breakout Session 3

##### Track A MAKERSPACE

**From Plan to Reality** While creating and expanding your makerspace ecosystem, your team will inevitably encounter challenges and obstacles as well as unexpected opportunities and successes. By embracing the flexible entrepreneurial maker mindset, these makerspace leaders found ways to adapt to events on the ground, pivot and capitalize on setbacks and limitations. Hear how to use temporary spaces, pop-ups and mobile makerspaces as well as other innovative approaches to internships to turn start-up challenges into cost-effective, resilient maker communities.

#### Moderator:

**Deborah Bird, Technical Assistance Provider, CCC Maker**

#### Panelists:

**Clare Sadnik, Art Faculty/Makerspace Project Lead, Moorpark College**

**Daniel Donnelly, Chair of Art & Design Dept. and Create Space Director, Butte College**

**Jason Kennedy, Makerspace Project Coordinator, Moreno Valley College**

**Mary Govaars, Program Coordinator, Makerspace, Cabrillo College**

Location: Pelican Hill

##### Track B ENTREPRENEURSHIP

**Open Education Resources for your Makerspace** Learn about three open education resources for your makerspace students, The Michelson Institute for Intellectual Property (MichelsonIP.com), HP LIFE (life-global.org) and Intuit Education (intuit.com/partners/education-program/).

#### Panelists:

**Stephanie Bormann, Manager, HP Foundation**

**Dana Nasser, Faculty, Business & Administration of Justice, Santa Monica College and Nathan Khalil, Faculty, Business, Santa Monica College**

**David Tooper, Marketing Manager, Intuit Education**

## THURSDAY, APRIL 25

Location: Trabuco

### Track C IMPACT

#### **Makerspace Internships - Dynamic Solutions for Industry and Workforce Development**

Grow your makerspace into a Solution Center by connecting interns with local employers to address real business challenges. Panelists will discuss the impact of Makermatic, the scalable, structured, work-based learning experience piloted through the CCC Maker network. Learn how interdisciplinary teams of student interns apply the entrepreneurial mindset, 21st Century skills and makerspace tools to research, develop and advance proposals for products and services, and how employers are responding to the value the student teams bring to their business and community. With makerspace internships, you can build business partnerships to achieve direct engagement and provide a pathway to employment for innovation-ready graduates.

#### **Moderator:**

**Paul DeVoe, CCC Maker Leadership Team**

#### **Panelists:**

**Michael Bell, Deputy Sector Navigator for Advanced Manufacturing, North Region**

**Tom Cappelletti, Faculty Lead and Project Director, SCC Makerspace, Sacramento City College**

**Rebecca Jacobs, Business Outreach Specialist, Allan Hancock College**

**3:30 PM - 4:15 PM**

Location: Saddleback

### Breakout Session 4

#### Track A MAKERSPACE

**Innovative Curriculum Strategies** Makerspaces invite authentic teaching and learning experiences. From the smallest outreach activity to large scale, complex design and fabrication projects, effective maker curriculum has the power to change the way we teach and students learn. Join faculty members who use making and entrepreneurship to transcend disciplinary boundaries and traditional roles, improve student outcomes and motivate students towards their educational and career goals.

#### **Moderator/Panelist:**

**Zachary Dowell, Faculty Director, Innovation Center, Folsom Lake College**

#### **Panelists:**

**Denise Bushnell, Professor, Business and Information Technology; CTE Committee Co-Chair, Sierra College & Makermatic Faculty Coach**

**Cody O'Farrell, SCC Makerspace Faculty, Sacramento City College**

Location: Pelican Hill

### Track B ENTREPRENEURSHIP

**From the Ground Up** Are you starting a makerspace from scratch where no one knows what a Maker Space is? Hear how these NACCE members used a variety of camps to engage middle school students, high school students, volunteers, and local entrepreneurs to build a robust community of makers and a wish list of things to buy next!

#### **Presenters:**

**Holly Hanson, Director, Cumberland Business Incubator, Roane State Community College & Camp Director, Verizon Innovative Learning**

**Eric Saliim, North Carolina Central University FAB Lab Director, NCCU FAB Lab**

## THURSDAY, APRIL 25

Location: Trabuco

### Track C IMPACT

**Moving Towards a New Culture of Education - Risk and Reinvention** As technology accelerates the transformation of the workplace our educational culture must evolve to meet the demand for innovation ready graduates. Hear diverse perspectives on how entrepreneurial makerspaces use experimentation with space, tools and the maker mindset to initiate personal, professional and institutional change. Take advantage of low risk/high impact opportunities in your makerspace to inform student centered educational transformation at all levels of your institution.

**Moderator:** Carol Pepper-Kittredge, Statewide Project Director, CCC Maker

**Panelists:**

Amy Schulz, Ph.D, MBA, Dean of Career, Continuing, and Technical Education,  
Division of Business & Technology, Sierra College

Curtis Chan, Account Manager, Engineering Education, Fusion 360, Autodesk

Alan D'Souza, Librarian, MakerSPHERE Collaboratory, City College of San Francisco  
Student Awardee

Robert Mulholland, CCC Maker Student, Cabrillo College

### 4:30 PM - 6:00 PM

Location: Foyer

### Networking Reception with CCC Maker College and Awarded Student Gallery

See the work of the CCC Maker Colleges and award winning student projects in our pop-up exhibition. Speak with our exhibitors and entrepreneurial organizations while networking with old and new friends and enjoying light appetizers and refreshments.

### 5:30 PM - 6:30 PM

Don't forget to visit the Moreno Valley College (MVC) Mobile Innovation Center! It is parked on-site at Hotel Irvine.

### 6:00 PM - 8:00 PM

### Optional Dine-Around Dinners

Sign up at the registration desk. These are non-hosted dinners.

## FRIDAY, APRIL 26

### 7:00 AM - 8:15 AM

Location: Foyer

### Breakfast

### 8:15 AM - 9:45 AM

Location: Salon ABC

### Morning Main-stage Session

#### Leaders of the New Age: Why Initiatives Like CCC Maker Matter

Willy Duncan, Superintendent & President, Sierra College

Entrepreneurial Presidents Panel

**Moderator:**

Amy Schulz, PhD, MBA, Dean of Career, Continuing and Technical Education, Sierra College

**Panelists:**

Dr. Cathy Kemper-Pelle, President, Rogue Community College

Willy Duncan, Superintendent & President, Sierra College

Dr. Carlos Turner-Cortez, President, San Diego Continuing Education



## FRIDAY, APRIL 26

10:00 AM - 10:45 AM

Location: Saddleback

### Breakout Session 5

#### Track A MAKERSPACE

**Telling Your Story** Attract partners, resources and makers by telling compelling stories. In articles, social media, videos and other communication, a well-crafted story will intrigue and move your audience to take action. Hear from maker communicators how to develop and deliver authentic stories that demonstrate your program's effectiveness in changing lives.

**Moderator/Panelist:** Karen Fraser-Middleton, Strategic Communication, CCC Maker & Marketing Action, Inc.

**Panelists:**

Goli Mohammadi, CCC Maker Publications writer & former Senior Editor of Make Magazine  
Michelle Zamora, founding Creative Director, Sacramento City College Makerspace & Videographer

Location: Pelican Hill

#### Track B ENTREPRENEURSHIP

**Building a Strong 21st Century Workforce - A TED-talk panel discussion - The Future is happening NOW.** See why & how the workplace changed. Hear what students need to know NOW to thrive in a competitive Global Economy. Find out how Maker Spaces can be the catalyst to make the puzzle pieces fit - connecting the dots for students from K-12 to Community College to Careers to Entrepreneurship. See how Maker Spaces utilize Apprenticeships & Internships to build a STRONG 21st Century Workforce.

**Panelists:**

Sarah Boisvert, Founder, Fab Lab Hub; author of *The New Collar Workforce*  
Andy McCutcheon, Dean, School of Humanities & Maker Space, College of the Canyons  
Cari Lyn Vinci, Founder, InVINCIble Enterprises, author of *Playbook for Teens & STE@M™ Mentoring Program*

Location: Trabuco

#### Track C IMPACT

**Making Decisions that Make a Difference** From managing makerspace resources to assessing learning and program performance, real time data gathering and analysis can drive makerspace evolution and sustainability while aligning with state reporting metrics. The panel will introduce tracking software, data dashboards, and analytics that demonstrate the effectiveness and value of your makerspace and pose questions for future learning assessment and evaluation on a statewide scale.

**Moderator:**

Salomon Davila, Technical Assistance Provider, CCC Maker

**Panelists:**

Mala Arthur, Project Manager, and Ben Roslof, Digital Fabrication Technician, Mountie Makerspace, Mt San Antonio College  
Dr. Cindy Ziker, Principal Researcher, SRI International

## FRIDAY, APRIL 26

11:00 AM - 11:45 AM

Location: Saddleback

### Breakout Session 6

#### Track A MAKERSPACE

**Makerspaces - Innovation Centers for Professional Development** Engage your makerspace as a professional development resource to transform the educational experience across your institution. Makers who have experienced the dynamic shift from maker student to maker educator will describe the value of low risk, fun activities to help faculty find opportunities for interdisciplinary collaboration, new programs, social entrepreneurship and lifelong learning. Leverage these practical tips and ideas to move your community toward a sustainable ecosystem.

#### Moderator:

**Maura Devlin, Faculty Lead and makerSPHERE Coordinator, City College of San Francisco**

#### Panelists:

**Heather Lincoln, Creative Consultant for Sierra Makerspaces, Sierra College**

**Payson McNett, Arts and Makerspace Faculty, Cabrillo College**

**Lea Smith, CNIT/Maker 100 Instructor, MakerSPHERE, City College of San Francisco**

Location: Pelican Hill

#### Track B ENTREPRENEURSHIP

**Incorporate Non-Credit Programming** A 10-slide Model Pitch to Expand Your Makerspace - Two League for Innovation award-winning San Diego Continuing Education (SDCE) instructors will make a 20 minute entrepreneur-style model pitch for incorporating noncredit certificate programs that will expand reach, benefits for students, and improve resource offerings in your Makerspace. The pitch will propose a model of noncredit instruction that fills in the gaps of credit program needs, provides FTES for students using Makerspaces at CDCP funding rates, and supplies students with fast, flexible, learning opportunities for industry validated skills. Following the pitch, the presentation will wrap up with a sample activity by SDCCD Dean of Career Education and Workforce Development Amertah Perman that provides insight into a method for quickly and effectively designing industry aligned curriculum through an employer engagement skills validation process.

#### Presenters:

**Dr. Aaron Iffland, Faculty, Business Information Technology,  
San Diego Community College District**

**Amertah Perman, Dean, Career Education & Workforce Development,  
San Diego Community College District**

**Matthew Rivaldi, Faculty, Business & Information Technology,  
San Diego Community College District**

## FRIDAY, APRIL 26

Location: Trabuco

### Track C IMPACT

**Forge Effective Resource Partnerships** Advance your entrepreneurship and workforce mission by leveraging productive community, institutional and foundation relationships. Identify common goals and explore sustainability opportunities with this panel representing public, public/private partnerships, and community networks.

**Moderator:**

**Deborah Bird, CCC Maker Technical Assistance Provider**

**Panelists:**

**Steven Trindade, Owner/CEO Urban Workshop**

**Dr. Suzanne Valery, Grant Consultant & Evaluator**

**Courtney Cogan, Employment Specialist, Cabrillo College & Workforce Santa Cruz County**

**12:00 PM - 1:30 PM**

Location: Salon ABC

### Luncheon & Afternoon Main-stage Session & Closing Remarks

#### Sustainability & Funding: Insights from Foundation Leaders

**Moderator: Dr. Rebecca Corbin, President & CEO, NACCE**

**Panelists:**

**Stephanie Bormann, Manager, HP Foundation**

**Rachel Burnette, Program Officer, Lemelson Foundation**

**Mayra Lombera, Director, Strategic Initiatives, Michelson 20 MM Foundation**

**2:00 PM - 3:00 PM**

### Optional Off-Site Tour at Urban Workshop

Urban Workshop is an 18,500 square foot makerspace located just 4.3 miles from the Hotel Irvine (<https://urbanworkshop.net/>). CEO Steve Trindade, an engineer by training, will share the story of this very large membership-based space including the types of equipment and training available, and the community that has formed within and around Urban Workshop. Space is limited to 25 attendees. Sign up at the registration table to reserve your spot. The tour starts at 2 PM on Friday, April 26.

---

### Congrats to our CCC Maker Student Awardees!

Alliya, Smith-Brown, Sierra College

Ruben Bravo, Hartnell College

Connor Challis, Sierra College

Robert Mulholland, Cabrillo College

Ashley Tamori, Butte College

Nicole Shuman, Folsom Lake College

Christian Espinoza, Sacramento City College

Jhoany Chong, City College of San Francisco

Leah Vass, Laney College

Dunia Hijaz, Moorpark College

Anthony (Tony) Cheng, Orange Coast College

Patrick Gagnon, College of the Canyons

Thank you to our sponsors and exhibitors



#makeSHIFT2019