



**MESA USA National Conference
Designing for Equity
December 5, 2020**

All Times Listed are in MST-Adjust Accordingly

| TIME-MST | SESSION | | | | | |
|--------------------------------|---|---|--------------------------------------|--|---|--|
| 10:00 AM-10:30 AM | Welcome and Introductions: MESA USA Directors, NEDC Committee | | | | | |
| 10:30 AM-11:30 AM | Keynote Address: Kamal Sinclair | | | | | |
| 11:30 AM-11:45 AM | BREAK | | | | | |
| | ROOM 1 | ROOM 2 | Room 3 | ROOM 4 | ROOM 5 | ROOM 6 |
| 11:45 AM-12:45 PM Session 1 | Explore Equity in Design With a World Café Oregon MESA | Design Thinking in the Virtual Environment Maryland MESA | Microaggressions Utah MESA | Building Equity with Mentorship New Mexico | School Share Out- Networking Room and Help Desk | Introduction to Prototyping with the Micro:bit SparkFun Electronics |
| 12:45 PM-1:15 PM | MEAL BREAK | | | | | |
| 1:15 PM-2:15 PM Session 2 | Explore Equity in Design With a World Café Oregon MESA | Design Heuristics for Novel Prototype Variation Washington MESA | Designing for Equity Arizona MESA | Designing for Equity in Industry-Panel California MESA | School Share Out- Networking Room and Help Desk | Introduction to the Arduino Tinker Kit SparkFun Electronics |
| 2:15 PM-2:20 PM | BREAK-ZOOM SWITCH | | | | | |
| 2:20 PM-2:45 PM | Closing Remarks: NEDC Committee | | | | | |

Any Questions, MESA USA NEDC Committee:

- Arizona: Manny Leon, leon@arizona.edu and Bill Pike, wpike@arizona.edu
- California: Beatrice Prieto, bprieto@mail.fresnostate.edu
- Maryland: Jason Cartwright, jason.cartwright@jhuapl.edu
- New Mexico: Anita Gonzales, anita@nmmesa.org
- Oregon: Tamara DePue, depue@pdx.edu
- Utah: Dr. Paul Ross, buffyross@msn.com
- Washington: Elizabeth Stephens, elizabeth.stephens@pnnl.gov

General Session Descriptions:
All Times Listed are in MST-Adjust Accordingly

WELCOME AND INTRODUCTIONS

Presented By: Dwight Carr, MESA USA Chair; Thomas Ahn, MESA USA Vice-Chair; and MESA USA Executive Directors. *Hosted By:* Anita Gonzales (NM)
Time: 10:00 AM-10:30 AM
Zoom Link: <https://zoom.us/j/99035327262>
Meeting ID: 990 3532 7262

Welcome to our inaugural MESA USA National Conference. Our MESA USA team is excited to share with you the vision of the MESA USA collaborative and how we are all working towards Designing for Equity in our respective states.

KEYNOTE ADDRESS

Presented By: Kamal Sinclair
Time: 10:30 AM-11:30 AM
Zoom Link and Meeting ID: Same as Welcome and Introductions

Kamal Sinclair, is making the world more beautiful as the Executive Director of the [Guild of Future Architects](#) and artist at Sinclair Futures. She served as an External Advisor to the [MacArthur Foundation's Journalism & Media Program](#), a Creative Advisor to [For Freedoms](#) (the largest collective art project in US history), a member of [Sharon Chang's Family Office](#) ([Dream Office of Imaginary Friends](#)) and as an advisory board member of [MIT's Center for Advanced Virtuality](#), [Starfish Incubator](#), and [Eyebeam](#).



Previously, was the Director of Sundance Institute's [New Frontier Labs Program](#) for seven years, which supports artists working at the convergence of film, art, media and technology. During that period, she consulted for the [Ford Foundation's JustFilms](#) program on a research project aimed at furthering equality in emerging media, which resulted in "[Making a New Reality](#)."

Sinclair got her start in emerging media as an artist and producer on [Question Bridge: Black Males](#). At Question Bridge, where she and her collaborators launched a project with an interactive website and curriculum; published a book; exhibited in over sixty museums/festivals.

MESA USA CLOSING REMARKS

Presented By: NEDC Committee. *Hosted By:* Anita Gonzales (NM)
Time: 2:20 PM-2:45 PM
Zoom Link: <https://zoom.us/j/91512869375>
Meeting ID: 915 1286 9375

Completion of the final conference evaluation and closing remarks by the MESA USA National NEDC Committee.

Session 1 Descriptions:

All Times Listed are in MST-Adjust Accordingly: 11:45 AM-12:45 PM

Each Session is Hosted by the Presenting State. Some Sessions Have Passwords and Some Do Not

EXPLORE EQUITY IN DESIGN WITH A WORLD CAFE

Presented By: Oregon MESA, Tamara DePue

Time: 11:45 AM-12:45 PM

Zoom Link: <https://pdx.zoom.us/j/82365972477>

This activity uses the World Cafe Method to introduce the idea of equity in design to students. In this activity, students will explore examples of design and see how inequity can lead to bias in the products that are created.

DESIGN THINKING IN THE VIRTUAL ENVIRONMENT

Presented By: Maryland MESA, Jason Cartwright and Dennis Smith

Time: 11:45 AM-12:45 PM

Zoom Link: <https://jhuaapl.zoomgov.com/u/aec2Qk9JWt>

Meeting ID: 161 353 9336

Meeting Password: 717213

Design Thinking is a human-centered approach to problem solving. This approach typically incorporates three core elements: empathy for the user, collaboration, and rapid prototyping. Design Thinking techniques can be applied to a wide range of problems. During this session, representatives from Maryland MESA will lead you through a series of activities that you can use to help your students develop solutions to the NEDC and other MESA projects.

MICROAGGRESSIONS

Presented By: Utah MESA, Charlene Lui

Time: 11:45 AM-12:45 PM

Zoom Link: <https://graniteschools-org.zoom.us/j/83670508778?pwd=Ryt6akJVYngwbnNDdHZlWW9ja3U2UT09>

Meeting ID: 836 7050 8778

Meeting Passcode: 709348

The purpose of this breakout session is to explore the topics of unconscious bias and microaggressions as they relate to the educational experiences of our students and colleagues of color. As we strive to increase participation in STEM-related coursework and post-high opportunities in the field, it is critical that educators understand what microaggressions are, as well as effective ways to interrupt unconscious bias and microaggressions within their schools and community.

BUILDING EQUITY WITH MENTORSHIP

Presented By: New Mexico MESA, Anita Gonzales

Time: 11:45 AM-12:45 PM

Zoom Link: <https://zoom.us/j/98526379832>

Meeting ID: 985 2637 9832

Mentoring is important when building equity in programming and your MESA time. There are many mentor situations which will help your students envision experiences and become engaged in learning. New Mexico MESA will lead you through some programs that have been impactful in their state involving cultural based mentorship, elementary and peer mentoring, professional mentoring, and University student mentorship. You will walk away with the framework to build a mentor program that will work for you.

SCHOOL SHARE OUT AND HELP DESK 1

Presented By: NEDC Committee - Elizabeth Stephens (WA) and Beatrice Prieto (CA)

Time: 11:45 AM-12:45 PM

Zoom Link: <https://pnnl.zoomgov.com/j/1610792384?pwd=QTZXendQbVBGM1VBRVB1b3dENFFsZz09>

Meeting ID: 161 079 2384

Meeting Passcode: 776323

If you have any questions during the conference, join this room. This is also an opportunity to network with your fellow MESA Advisors from across the nation. Come prepared to share out activities that are successful in your MESA program, activities that work towards building equity, and any items in your MESA time you would like assistance or feedback on.

INTRODUCTION TO PROTOTYPING WITH THE MICRO:BIT

Presented By: SparkFunElectronics, Derek Runberg. *Hosted By:* Bill Pike (AZ) and Manny Leon (AZ)

Time: 11:45 AM-12:45 PM

Zoom Link: <https://arizona.zoom.us/j/5206262335>

The BBC Micro:Bit is a cheap, tiny computer designed for the classroom. It has made a huge splash in UK schools with its browser based programming environment. The Micro:Bit is a perfect platform for exploring programmable electronics in a simple and scaffolded way. Come and hang out with the experts from SparkFun Electronics and see what it's all about; what sensors work with it and see a hands on demo.

Session 2 Descriptions:

All Times Listed are in MST-Adjust Accordingly: 1:15 PM-2:15 PM

Each Session is Hosted by the Presenting State. Some Sessions Have Passwords and Some Do Not

EXPLORE EQUITY IN DESIGN WITH A WORLD CAFE

Presented By: Oregon MESA, Tamara DePue

Time: 1:15 PM-2:15 PM

Zoom Link: <https://pdx.zoom.us/j/82365972477>

This activity uses the World Cafe Method to introduce the idea of equity in design to students. In this activity, students will explore examples of design and see how inequity can lead to bias in the products that are created.

DESIGN HEURISTICS FOR NOVEL PROTOTYPE VARIATION

Presented By: Washington MESA; Monet Becenti, Debbie Blas, and Elizabeth Stephens

Time: 1:15 PM-2:15 PM

Zoom Link: <https://heritage.zoom.us/j/94043016426?pwd=U3NCSWtkUmJrSy8rTC9WSDF6enptZz09>

Meeting ID: 940 4301 6426

Passcode: 023717

Take your design to the next level, don't just settle! Design heuristics is a tool used to either aid in generating ideas or to transform concepts into new solutions. In this session, learn how to apply design heuristics in prototyping and encourage iterations.

DESIGNING FOR EQUITY

Presented By: Arizona MESA; Bill Pike and Manny Leon

Time: 1:15 PM-2:15 PM

Zoom Link: <https://arizona.zoom.us/j/85700662942>

This workshop will give teachers a tool to use in their MESA Clubs/Classes to teach students about Designing for Equity and a process they can use as they work on the NEDC. It adapts the Human Centered Design model to provide a focus on equity. It will lead students from identifying an inequity to developing a solution. Teachers will walk away with some tools and will be shared a copy of the presentation to use/adapt for their needs

DESIGNING FOR EQUITY IN INDUSTRY-PANEL DISCUSSION

Presented By: California MESA, Beatrice Prieto

Time: 1:15 PM-2:15 PM

Zoom Link: <https://fresnostate.zoom.us/j/86867334292?pwd=azJLbTIxWE5Qc1FKM3B2NnNvUHRxdz09>

Meeting ID: 868 6733 4292

Passcode: 936077

Join us for an open discussion with industry professionals as they speak about designing for equity in their company. Learn how professionals are promoting designing for equity in their company and get examples of what questions students should be asking when beginning their designs. Also, learn about what initiatives companies use to reach out to diverse populations.

SCHOOL SHARE OUT AND HELP DESK

Presented By: NEDC Committee. *Hosted By:* Jason Cartwright (MD) and Paul Ross (UT)

Time: 1:15 PM-2:15 PM

Zoom Link: <https://jhuapl.zoomgov.com/j/1602469012?pwd=NFZwUW1TRXhFMklTy9YZUNVVENiQT09>

Meeting ID: 160 246 9012

Password: 953974

If you have any questions during the conference, join this room. This is also an opportunity to network with your fellow MESA Advisors from across the nation. Come prepared to share out activities that are successful in your MESA program, activities that work towards building equity, and any items in your MESA time you would like assistance or feedback on.

INTRODUCTION TO THE ARDUINO TINKER KIT

Presented By: SparkFunElectronics, Derek Runberg. *Hosted By:* Anita Gonzales (NM)

Time: 1:15 PM-2:15 PM

Zoom Link: <https://zoom.us/j/98391073806>

Meeting ID: 983 9107 3806

Using the SparkFun Tinker Kit as an introduction to electronics, programming, and physical computing allows artists, makers, educators, and students to easily control LEDs, read sensors, and move motors. Come for a hands-on workshop that will both show the possibilities of physical computing in your school to create the next generation of innovators as well as an in depth look at how it is using Arduino to empower MESA students through the design process.