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GOVERNOR'S OFFICE OF SCIENCE, INNOVATION & TECHNOLOGY

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Brian L. Mitchell
Director

PUBLIC MEETING MINUTES

Name of Organization: STEAM Subcommittee
Date and Time of Meeting: Thursday, September 6, 2018 @ 2:00 pm
Place of Meeting: Nevada State Library and Archives
Governor's Office of Science Innovation and Technology
100 North Stewart Street, Suite 220
Carson City, NV 89701

Please use the following numbers to join the Conference Call:

Northern: 775-687-0999 or
Southern: 702-486-5260
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I. Call to Order / Roll Call

Marisa Cooper, Chair

The STEAM Subcommittee was called to order by Chair Marissa Cooper at 2:01 P.M., on September 6, 2018, on the tele-conference remote site, listed above.

Members Present:

Candace Garlock
Candy Schneider
Craig Rosen
Jeneane Harter
Laura Christian
Marisa Cooper
Mary Holsclaw
MaryJane Dorofachuk
Sarah Gobbs-Hill
Sue Dehart
Tia Flores

Members Absent:

Julye Neel
Meghan Schiedel

Guests Present:

None

Staff Present:

Brian Mitchell
Debra Petrelli
Tracey Gaffney

- II. Public Comment** (No action may be taken upon a matter raised under public comment period unless the matter itself has been specifically included on an agenda as an action item.)
Marisa Cooper, Chair

There was no public comment.

III. Welcoming Remarks and Announcements

Marisa Cooper, Chair

Chair Cooper welcomed everyone back since the summer break.

IV. Approval of the Minutes from the May 25, 2018 STEAM Subcommittee (For possible action)

Marisa Cooper, Chair

Chair Cooper asked if there were any corrections to the May 25, 2018 Minutes as written. None were made. Ms. Schneider made a motion to approve the Minutes of May 25, 2018, as written. Ms. Harter seconded the motion. The motion passed unanimously.

V. Discussion on the STEAM Paper (For possible action)

Marisa Cooper, Chair

Chair Cooper said last week she attended the STEM Advisory Council's meeting and presented the STEAM white paper for endorsement by the council. She commented she received positive feedback and the overall document was approved for ratified by the council. She added she will make a few minor edits and it will be ready for distribution. She asked if this document will have an official designated location. Mr. Mitchell responded the official home of the document would be on the OSIT website's STEM Advisory Council's webpage, as well as on the STEAM subcommittee webpage for anyone to reference. He also suggested that subcommittee members send out either a pdf of the document or the link to the website: http://osit.nv.gov/STEM/STEAM_Subcommittee/. He said the document can also be posted to any member of the subcommittees' websites.

VI. Discussion on the STEAM Conference and Possible Other Future Projects to Include the Survey of Statewide Arts Education (For possible action)

Marisa Cooper, Chair

Chair Cooper announced that an immense amount of progress has been made regarding the Nevada STEAM Conference, and after much deliberation and review of the survey data collected, as well as response to the event, it was determined to hold the next Nevada STEAM

Conference at the Nevada Museum of Art. She said in addition to that, a series of regional events are being held throughout the state with the goal of better supporting communities of teachers across the state of Nevada. She said an event is being held in Elko on October 16, 2018 at the Elko Conference Center, and she would very much appreciate seeing members of this subcommittee participate in that event. She thanked Ms. Flores and Ms. Dorofachuk, who both received good feedback and resources to help make that event take place in October. She commented there is a new Superintendent in Elko, Todd Pehrson, and he strongly supports STEAM education in the Elko County School District.

Mr. Rosen commented on the Southern Nevada STEAM Symposium taking place February 23, 2019. He said a group of influential people convened to bring the event together to include the University of Nevada, Las Vegas (UNLV), Discovery Museum Las Vegas, The Nevada Museum of Art, Desert Research Institute (DRI), and the Smith Center of Performing Arts have all started having planning meetings. He said he also has had a meeting with Cirque du Soleil in Las Vegas who is very excited about joining this planning team. He said there will be a similar theme to the STEAM Conference, but with a different twist. He said they will be exploring audio animatronics and the entertainment industry, with a focus on robotics. Chair Cooper said this will be a great gateway to the big statewide Nevada STEAM Conference on February 2, 2019, with some of the same themes and issues around the future of STEAM and leveraging new technology.

Chair Cooper commented there is funding in place that can be used to travel teams of teachers from every district in the state to the Nevada STEAM Conference on February 2, 2019. She said the goal is to make the Nevada STEAM Conference a statewide event with the participation of teachers from every corner of Nevada, and start talking about the next iteration of STEAM in the state. She added that two keynote speakers have been secured, similar to last year's STEAM Conference. She said one speaker is more experienced on the science-side and one speaker more experienced on the arts-side, which will complement each of them. She said the morning keynote speaker is Dr. Beth Rattner, Executive Director of the Biomimicry Institute, which is using major to inspire innovation in design, and is an interdisciplinary organization running K-12 design charts across the country leveraging major to inspire innovations. She said the afternoon keynote speaker is Dr. Jane Davison, an art history professor at the University of Nevada, Reno (UNR), who recently published a book on a history of paleontology of illustration, and will be talking about the way art and history influenced past practices in paleontology and natural history as a whole. She commented that the format for workshops at the upcoming STEAM conference will be slightly changed by only having two-hour, hands-on workshops. She said Sierra Nevada Journeys will be presenting biomimicry workshops and there will be an illustrator from the CDC. She added a major exhibition is currently being mounted on John James Audubon, featuring future and contemporary artists that were inspired by his work, but leveraging new technology. She said she will have planning documents very soon to start sharing with members of the subcommittee.

Ms. Flores asked what the capacity is for teachers attending and whether a conference price-point has been decided. Chair Cooper responded that for the Nevada STEAM Conference in Northern Nevada, 250 teachers is the cap, which is approximately 100 teachers over what registered last year, and 50 more various people then attended last year, thereby increasing both the number of teachers and the overall capacity. The cost of the conference is approximately

\$108,000 in which a substantial amount of funding has already been secured, but any additional financial support for the event is welcome. Mr. Rosen said 200 to 300 teachers are expected to attend the Southern Nevada STEAM Symposium. Chair Cooper added the event in Elko is expecting approximately 65 people, with approximately 30 being teachers, and added that this event is more about community support, and administrative support to include industry and workforce development.

Ms. Schneider asked how they were marketing to teachers across the state for the conference, and whether there is a way to create a certain number of teams to attend rather than advertise to individual teachers, and without requesting they attend only certain events. Chair Cooper said all three of these events; The Nevada STEAM Conference, the Southern Nevada STEAM Symposium and the Eastern Nevada Elko event all live on the NVSTEAM.org website, which makes it clear they are all satellites of each other and all support the same message. She said for the Nevada STEAM Conference, she has set aside tickets for a team from every Nevada school district, with only a portion of tickets will be available for teachers to register online. She added if any tickets are left, she will release them back to the public. She suggested the subcommittee do some legwork by finding a point of contact in each of the school districts and asked for suggestions on how that might be accomplished.

Mr. Rosen asked when the registrations for the Southern Nevada event should become live and whether there is a specific date. Chair Cooper suggested a minimum of two and one-half months prior to the event, which would be in the next 6-8 weeks in order to go through design and web-hosting services. She added that mid-November would be ideal.

Ms. Dorofachuk offered assistance in contacting various school districts since she is currently doing outreach work in most of the school districts and asked for details of each event.

Mr. Mitchell offered the support of OSIT to also distribute information on these events.

Ms. Flores asked whether they are still searching for hands-on workshops for any of the events. Chair Cooper responded that for the most-part the workshops are locked in, but if anyone has a good contact they feel should be on the radar, to please contact her with that information. Mr. Rosen commented the Southern Nevada Symposium is still open for workshop submissions.

Chair Cooper said that in past meetings the subcommittee had discussions on a statewide survey of arts education and asked for any comments on that subject. Ms. Flores said, in February and March, the Sierra Arts Foundation, through a grant, were able to get an intern to go statewide with a survey and determine what arts are offered in high school in all disciplines, as well as in middle and elementary schools. She said they will also be looking at elementary-level report cards for a grade in the arts, thereby not assuming arts are being provided only because it is listed on the report card. She said through this process they have been able to identify whether there is an actual certified art teacher in the school. She added the goal is to complete this project by February 2019. Chair Cooper commended Ms. Flores on this undertaking. Mr. Rosen agreed and pointed out that any of their findings will definitely help to guide this subcommittee. Chair Cooper offered the support of the subcommittee to assist in any way with Sierra Arts Foundation in this process.

Chair Cooper asked that every member of the subcommittee start thinking about ideas for the STEAM subcommittee's next steps.

VII. STEAM Subcommittee Member General Announcements (For information only)

Marisa Cooper, Chair

Ms. Garlock commented that Truckee Meadows Community College (TMCC) just got started with their learning community and planning meetings and the students have decided to work on the theme of "Food." She said many ideas were brainstormed, but the top choice selected in the interdisciplinary process was the creation of a recipe book that will be contemporary and sci-fi, not a traditional recipe book. She said all classes and disciplines would contribute. The free event, which is similar to a fair, highlighting what the students did and takes place on Tuesday, April 2, 2019. Chair Cooper asked that Ms. Garlock send an email with more information to the subcommittee members for their support in this event.

Mr. Mitchell introduced the new STEM Program Manager for OSIT, Tracey Gaffney, a former STEM coach at Washoe County School District. He commented that she will be assisting OSIT with STEM programs and professional development, working with schools and teachers.

Ms. Gobbs-Hill reported that The Discovery is having an educator open house in Reno on September 13, 2018 from 3:00 pm to 6:00 pm, and everyone in the education community is welcome to this event.

Chair Cooper thanked Ms. Schiedel of The Discovery and Ms. Holsclaw of the Department of Education for their attendance and support at the Nevada Museum of Art's regular educator evenings.

Ms. Schneider commented the Smith Center for the Performing Arts, Las Vegas is presenting their first ever sensory friendly performance of Disney's *The Lion King*, it is a matinee on November 17, 2018 at 2:00 pm. This performance is intended for individuals with sensory sensitivities and other intellectual or developmental disabilities.

Ms. Christian said the Discovery Children's Museum is currently working on a makerspace gallery. Ms. Schneider added the UNLV Library is also currently adding a makerspace on the first floor.

Mr. Rosen commented on events at Desert Research Institute (DRI). He said they are currently planning the Northern Nevada Science and Technology Festival which will be held on May 14, 2019 through May, 19, 2019. He said they will be working very closely with Ms. Gobbs-Hill from The Discovery.

VIII. Consider Future Agenda Items for the Next Meeting (For possible action)

Marisa Cooper, Chair

Ms. Cooper said they should include the STEAM Conference and regional events again, as well as a conversation about future projects at the next meeting.

IX. Public Comment (No action may be taken upon a matter raised under public comment period unless the matter itself has been specifically included on an agenda as an action item.)
Marisa Cooper, Chair

There was no public comment.

X. Adjournment
Marisa Cooper, Chair

Chair Cooper adjourned the meeting at 2:36 P.M.