

Statewide Undergraduate Research Symposium April 18th, 2020

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Symposium Schedule

SPACE GRANT CONSORTIUM

IN PERSON

- Friday banquet, keynote speaker & graduating senior ceremony
- Saturday plenary followed by student presentations in four concurrent topical sessions

VIRTUAL

 Saturday keynote speaker followed by student presentations in four concurrent topical sessions

BOTH

• Students give ~8-minute PowerPoint presentation, ~2 minutes Q&A

Symposium Setup

- Zoom (capacity 500)
- Five meeting links (no breakout rooms)
- 10-minute student presentations + Q&A back-to-back
 - Presentation controlled fully by hosts
- 10-minute breaks every hour
 - PowerPoint of graduating seniors, opportunities, "next steps" tracking
 - Refresh rules, setup, and topical session



Saturday, April 18, 2020, Zoom Virtual Teleconference Meeting

8:30-9:30 a.m. WELCOME & KEYNOTE SPEAKER:

Zoom Link: https://arizona.zoom.us/j/95016907140

Password: **Removed for website use**

Dr. Timothy D. Swindle, Director, Arizona Space Grant Consortium

Dr. Moriba Jah, Associate Professor, Aerospace Engineering and Engineering Mechanics, University of Texas at Austin

Password **This information has been removed for publication on the AZSGC Symposium 2020 website. Contact your local Space Grant office for password information. Moderators:	Zoom Link	https://arizona.zoom.us/j/96465 892418	https://arizona.zoom.us/j/ 93484492494	https://asu.zoom.us/j/966502685 5?pwd=QVBhTHY2OVkrTzlPZy 83ekdvY2NmUT09	https://arizona.zoom.us/j/ 96535903606		
Elliott Bryner, ERAU Paloma Davidson, NAU Timothy Swindle, UA Session A TOPICS IN MATH, PHYSICS & CHEMISTRY TIME (9:40 AM - 10:30 AM) (MST) Elliott Bryner, ERAU Paloma Davidson, NAU Timothy Swindle, UA Nadine Barlow, NAU Desiree Crawl, ASU Yancy Shirley, UA Session B ASCEND Session C EARTH & ENVIRONMENTAL SCIENCE/ENGINEERING (9:40 AM - 10:30 AM) (9:40 AM - 10:30 AM) (9:40 AM - 10:30 AM) Session F Session C EARTH & ENVIRONMENTAL SCIENCE/ENGINEERING (9:40 AM-10:40 AM) (9:40 AM-10:40 AM) Session G	Password						
		Elliott Bryner, ERAU Paloma Davidson, NAU Timothy Swindle, UA Session A TOPICS IN MATH, PHYSICS & CHEMISTRY (9:40 AM - 10:30 AM) Session E EDUCATION & PUBLIC OUTREACH (10:30 AM - 11:30 AM) Session H AEROSPACE TECHNOLOGY: SPACEFLIGHT/ENGINEERING	Moderators: Nadine Barlow, NAU Desiree Crawl, ASU Yancy Shirley, UA Session B ASCEND (9:40 AM – 10:30 AM) Session F ASTRONOMY & SPACE PHYSICS	Moderators: Alexa Drew, ASU Chandra Holifield Collins, USDA Tom Sharp, ASU Session C EARTH & ENVIRONMENTAL SCIENCE/ENGINEERING	Amanda Clarke, ASU Michelle Coe, UA Ron Madler, ERAU Session D PLANETARY SCIENCE (9:40 AM-10:40 AM) Session G EXPLORATION SYSTEMS ENGINEERING: BIOLOGICAL, MATERIALS, OPTICAL, AND ELECTRICAL		

9:40-9:50	[A-1] <i>Hannah Dromiack</i> Controlling Cellular Automata	[B-1] Quynn Bell Estevan Cleveland Zach Moir PCC ASCEND Project HEXi	[C-1] Kathryn Chamberlin Arctic Ice Management	[D-1] Justin Baez Mapping Solute Concentrations In Outflow Channels
9:50-10:00	[A-2] Madison Grayson Proton Patient Log File Analysis for Machine Performance Evaluation	[B-2] Meghann Boland Misgana Gebremariam Constantino Meza Maxx Mudd Javier Perez Torres Samuel Queen Phoenix College ASCEND 2019-2020: Technology and Achievements	[C-2] Dylan Chandler Using eDNA to Assess Invertebrate Biodiversity Across a Temperature Gradient	[D-2] <i>Zeke Bandelier</i> Hydrated Salts on Mars
10:00-10:10	[A-3] Brad Ratto Gravitational Wave Calibration Error for Supernovae Core Collapse	[B-3] Christopher Korges CAC ASCEND Launch Results from Fall 2019 and Spring 2020	[C-3] Cedric Gammon Does Forest Management alter the Effects of Soil Fauna on Fungal Communities and Nitrogen Availability?	[D-3] Cara Courtney Modelling the Effects of the Flow Conditions and Rheology on Lava Flows with Polyethylene Glycol
10:10-10:20	[A-4] Kimberly Velarde Herpes Simplex Virus 1 Amplicon Vectors	[B-4] Genevieve Cooper Maxwell Fell Feras Jayyusi Anyell Mata Kyle McCormick David Rodriguez Glendale Community College Fall 2019 Payload	[C-4] Brielle Januszewski Dose-Toxicity Characterization of Silver Nanoparticles	[D-4] Megan Gialluca Investigating the Capabilities of the JWST to Categorize Earth-Like Planets Orbiting Cool Main Sequence Stars
10:20-10:30	[A-5] Lily Wayne Using Calcium Isotope Fractionation to Measure Bone Mineral Density	[B-5] Ivan Martinez Morales Christopher Yurgel Arizona Space Grant ASCEND! Analysis of Sonoran Desert Biomass Health Through Normalized Difference Vegetation Index Data at Altitude	[C-5] Emily Kunkle A Fossilized Rootless Hydrothermal System in the Cottonwood Subbasin of the Verde Valley, AZ	[D-5] Zachary Kirch Large Binocular Telescope Interferometer (LBTI) Software Documentation Project
10:30-10:40	[E-1] Rachel Abraham Science Communication: Out of the Silos and into the Media	[F-1] Michaela Cullipher Perchlorate in Tortoises and on Mars	[C-6] Mila Lubeck Forward Model of Glacial Isostatic Adjustment in Greenland and Future Projection of Greenland Ice Mass Loss	[D-6] <i>Hannah Zigo</i> Investigating Potential Ancient Inverted Valley Networks on Mars
10:40-10:50	BREAK			

Session Security

Password Protected (same for all links)



- Disabled screensharing from all attendees
- Shared meeting links only with known people



Session Moderators

SPACE GRANT CONSORTIUM

- 1 Host & 2 Co-Hosts per topical session
 - Created their session's Zoom link, provided for abstract booklet
 - Had contact information for all other co-hosts
 - PowerPoints pre-downloaded on computer in order of presentation, tested on computer for errors, etc.
 - Practiced together and designated tasks for the meeting

Host & Co-Host Responsibilities



HOST	CO-HOST #1	CO-HOST #2
PowerPoint Control	"Voice" of session	Back-Up
"Next Slide"	Introduced Speaker	Keep Time
Breaks	Fielded Questions	Ask Questions

Student Submissions & Practice



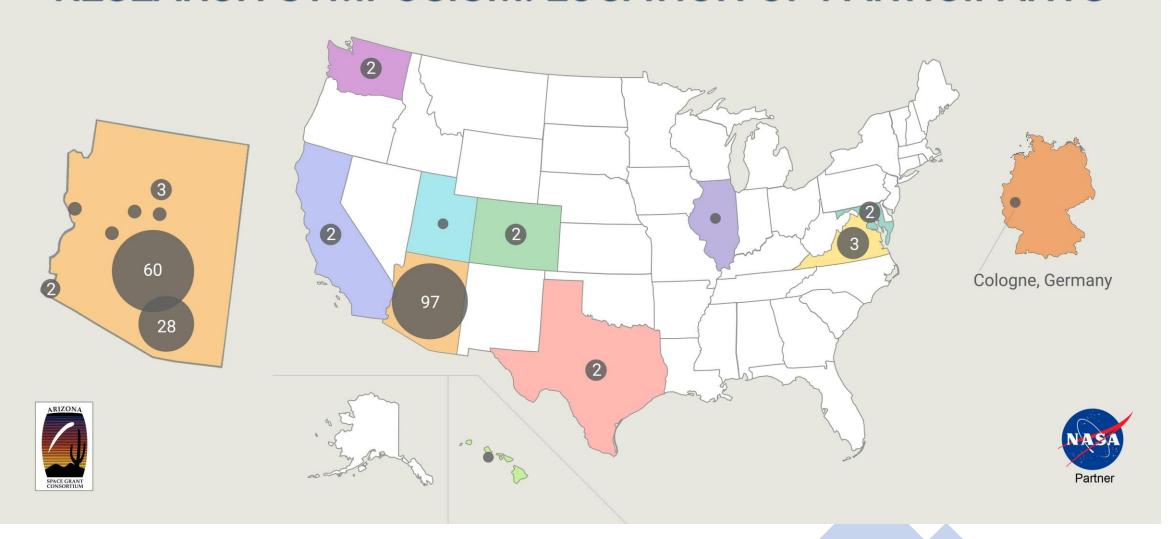
- One 150-word abstract
 - Including personal information & indicating 1-3 preference of topical session
 - Abstract writing workshop
- One ~8-minute PowerPoint presentation
 - Mandatory: PowerPoint practice session (held 3 sessions total)
 - All submissions made at least 5-days out. No day-of submissions, no exceptions.

Positive Feedback

- High attendance
- Easy to hop from session to session
- Parents and friends able to participate
- Some interns preferred this presentation style
- Save on cost (food, keynote speaker, etc.)



2020 ARIZONA SPACE GRANT UNDERGRADUATE RESEARCH SYMPOSIUM: LOCATION OF PARTICIPANTS



Constructive Feedback

Limited networking and downtime



Lots of chatter in the chat box, not many questions to presenter

Concluding session

Tips

- Check the meeting capacity for your platform
- Camera on during presentation or breaks if able/comfortable doing so
- Use registration to get OEPM information
- Create a back-up plan in case of security issues
- Practice with students and hosts (for example, "next slide")
- Reminder to have professional photo, full first/last name, pronouns, school abbreviation in meeting profile
- Have a plan for cutting someone off, keeping time, and receiving/answering questions





THANK YOU

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AZSGC Symposium Website:

https://spacegrant.arizona.edu/students/symposium