American Mathematical Association of Two-Year Colleges

47th AMATYC Annual Conference
October 28 – 31, 2021

Sheraton Phoenix Downtown
340 North 3rd Street
Phoenix, AZ 85004

Keynote Speakers

Lindy Elkins-Tanton
Arizona State University
The NASA Psyche Mission: Journey to a Metallic World

Talithia Williams
Harvey Mudd College
Power in Numbers: Unveiling Hidden Figures

Featured Speakers

James Tanton
Mathematical Association of America
The Astounding Mathematics of Bicycle Tracks

Scott Adamson
Chandler-Gilbert CC
Fired Up to Take Online Teaching Innovations Back to the Classroom!

Hosted by ArizMATYC and the Southwest Region

www.amatyc.org
Get Fired Up for Math! by our speakers and share your own ideas with other attendees at the 47th AMATYC Annual Conference in Phoenix, AZ, October 28-31, 2021. Thursday from 8:00 am - 10:00 am, choose from 36 different speakers giving 15-minute presentations as these AMATYC communities sponsor Themed Sessions: Developmental Mathematics, Innovative Teaching and Learning, Statistics, Equity, International Mathematics, and Mathematics Standards in the First Two Years of College (IMPACT). Check the topics for each of these presentations on the conference app and change rooms as new topics catch your interest. Thursday morning you might also choose to join a 50-minute walking tour of the Sheraton Phoenix Downtown to learn more about AMATYC as you meet leaders along the route from the Executive Board, Professional Development Committee, and Conference Committee. These AMATYC 101 tours will leave at 8:00 am and 8:20 am. Mini sessions (25-minute presentations) from 11:30 am to 12:25 pm give you a chance to take a quick lunch break as presenters charge at 11:55 am. And there's still time to catch more sessions before going to the Thursday Keynote at 3:00 pm and the Exhibit Hall Grand Opening at 4:30 pm. From Thursday through Sunday, hear from your colleagues about how they kept themselves and their students fired up, engaged, and successful during these extraordinary times. And learn how to keep that fire going in areas such as corequisites, pathways, technology use, research, equity, diversity, and inclusion, even as many of us are transitioning from remote teaching back to the face-to-face classroom.

### Conference Highlights

#### Keynote Speakers

**Lindy Elkins-Tanton**  
*The NASA Psyche Mission: Journey to a Metallic World*  
“Psyche” is both the name of a metallic asteroid, and the name of the NASA mission to visit that asteroid. Humans have never explored a world made of metal. The presentation will include how missions are planned, who plans them, and the steps to prepare for launch.

**Talithia Williams**  
*Power in Numbers: Unveiling Hidden Figures*  
“Hidden Figures” brought visibility to African American women serving as NASA “human computers” in the 1960s, dreaming the impossible in a field where their presence was lacking. Demands of today’s STEM workforce require recruiting and training individuals typically underrepresented in math. Hear the speaker’s journey as a woman of color in statistics. Share ways to excite public interest in mathematics, building upon the rich legacy of these Hidden Figures.

#### Featured Speakers

**James Tanton**  
*The Astounding Mathematics of Bicycle Tracks*  
It’s a classic in the mathematics community: If you come across the pair of bicycle tracks on the ground, can you determine which way the bicycle went? Ride a bicycle and find out! Go deeper and explore some additional surprises about this. See some standard geometry put to wild quirky use!

**Scott Adamson**  
*Fired Up to Take Online Teaching Innovations Back to the Classroom!*  
After a year of transitioning to asynchronous, online instruction, it’s time to think about how this work can be leveraged in the return to face-to-face instruction. This session will include discussion of the innovative, online pedagogical strategies that supported student learning that can also be effective in the face-to-face environment.

### Conference Registration

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Please contact the AMATYC Office for more information regarding:
- Adjunct and Retiree registration
- Member-sponsored student registration
- Pre-paying conference registration fees

Discount registration deadline: Thursday, September 30, 2021

### Phoenix Conference Committee

**Conference Coordinator**  
Turi Suski  
suski@amatyc.org

**Asst. Conference Coordinator**  
Nathalie M. Vega-Rhodes  
conferenceassist@amatyc.org

**Program Coordinator**  
Judy Williams  
programcoordinator@amatyc.org

**Asst. Program Coordinator**  
Michael Pemberton  
programassist@amatyc.org

**Advertising Chair**  
Crystal Wiggins  
advertising@amatyc.org

**Exhibits Chair**  
Todd Stine  
exhibits@amatyc.org

**Local Events Coordinator**  
Ana Jiménez  
ajimenez@pima.edu
The 47th AMATYC Annual Conference begins Thursday, October 28, 2021, at the Sheraton Phoenix Downtown located at 340 N. 3rd St., Phoenix AZ 85004. All conference events will be held at the hotel.

A block of guest rooms at reduced rates has been reserved at the Sheraton Phoenix Downtown until Friday, October 8, 2021, or until AMATYC’s room block is sold out, whichever comes first. Any unreserved rooms in the block may be released for sale to the general public after this date. AMATYC members have purchased all available rooms in recent years, so make your reservations early! Be sure to mention that you are attending the AMATYC Conference if making your reservation by phone. Reservations can be made at the link on the AMATYC website, the link listed below, or by calling the hotel at the number listed below.

A deposit equal to one night's stay is required to hold each individual's reservation. Personal check, money order, or a valid American Express, Visa, MasterCard, Diners Card number and expiration date or a guarantee to the master account are acceptable. Should a guest cancel a reservation, the deposit will be refunded if notice is received at least two working days prior to arrival, and a cancellation number is obtained. In the event a guest who has requested a room within the block checks out prior to their reserved checkout date, the hotel will add an early checkout fee to that guest's account. Guests wishing to avoid an early checkout fee should advise the hotel at or before check-in of any change in planned length of stay.

Sheraton Phoenix Downtown
340 N. 3rd St. • Phoenix, AZ 85004
Reservations (online): https://tinyurl.com/32kepmch
Reservations (phone): 1.866.837.4213 ext. 4 (mention AMATYC Conference)

Room Rates* (per night, includes Internet)
*Rooms rates are subject to state, local, and occupancy taxes.
• Single/Double $189 • Triple $199 • Quad $209
Children under 18 stay for free in their parent's room

Check-in: 3:00 pm Check-out: 11:00 am

PLACES TO VISIT IN PHOENIX

With highs in the mid 80's and sun all day, the end of October is the perfect time to visit Phoenix. In addition to enjoying great keynote and local speakers, you'll need to pack your swimsuit for cool dips in the hotel pool, hiking boots for gorgeous vistas you can only get to on foot, your ID to fully enjoy our many microbreweries and bars, and a belt that you can loosen as your tastebuds rejoice in diverse victuals, from authentic Mexican cuisine to gourmet S'mores! We have created an awesome virtual online webpage where you can check out the fun attractions in Phoenix.

Local Attractions
• Arizona Science Center
• Desert Botanical Gardens
• Heritage Square

Microbreweries & Bars
• Angels Trumpet Ale House
• Heltton Brewing Company
• Huss Brewing Company
• State 48 Brewery
• Wren House Brewing Company

Museums
• Heard Museum
• Musical Instrument Museum
• Phoenix Art Museum
• Pueblo Grande Museum

Parks & Recreation
• Camelback Mountain
• Phoenix Mountain Preserve
• Phoenix Zoo
• South Mountain Park

Road Trips
• Grand Canyon
• Red Rocks of Sedona
• Tucson's Desert Museum
• Boyce Thompson Arboretum

Sports
• Arizona Cardinals (NFL)
• Arizona Coyotes (NHL)
• Phoenix Suns (NBA)

Theaters
• Herberger Theater
• Orpheum

More information about these and other attractions can be found at www.amatyc.org/2021ConfHome.

Please Note: At the time of printing, face masks must be worn publicly throughout Maricopa County. Many businesses are requiring face masks within their establishments as well. Also, please note that some businesses and public spaces may be temporarily closed due to COVID-19, so be sure to verify hours of operation before visiting.

AMATYC Office
Southwest Tennessee CC • 5983 Macon Cove • Memphis, TN 38134
Phone: 901.333.5643 • Email: amatyc@amatyc.org • Website: www.amatyc.org
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Advance Conference Information

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Phoenix, Arizona
Thursday – Sunday
October 28 – 31, 2021