



Coming full circle

Project Success TCU-Carnegie Math Pathways Network Convening

Albuquerque, NM / June 17-19, 2022



CARNEGIE MATH
PATHWAYS
WestEd



Welcome!

Celebrating five years of Project Success

Last updated 6/16/22

Agenda at a Glance

DAY 1

Friday, June 17, 2022

4 - 6 p.m.	Check-in Desk Open <i>Outside La Ventana Room</i>
6 - 8 p.m.	Opening Prayer, Welcome Reception & Dinner <i>La Ventana Room</i>

DAY 2

Saturday, June 18, 2022

8 - 9 a.m.	Breakfast <i>Atrium</i>
9 - 9:45 a.m.	Community Connection & Celebration <i>Ocotillo Meeting Room</i>
9:45 - 10 a.m.	Break <i>Precon Hallway Ocotillo</i>
10 - 11 a.m.	OPENING KEYNOTE <i>OCOTILLO MEETING ROOM</i> Indigenous vs. Industrial World Views: How teaching math with Inclusive Andragogy can bridge the divide Michael Little Crow, Lecturer at Arizona State University
11:05 a.m. - 12 p.m.	Math Talking Circles <i>Ocotillo Meeting Room</i>
12 - 1 p.m.	Lunch <i>Sandia I-III ballroom</i>
1 - 1:45 p.m.	GUEST SPEAKERS <i>OCOTILLO MEETING ROOM</i> Through the Years: The IAIA Experience Dr. Kay Holmes, Assistant Professor, Indigenous Liberal Studies & Andrea Otero, Assistant Professor, Math/Indigenous Liberal Studies at the Institute of American Indian Arts (IAIA)
1:45 - 2:30 p.m.	Curriculum Contextualization - Progress and Next Steps <i>Ocotillo Meeting Room</i>
2:30 - 2:45 p.m.	Break <i>Precon Hallway Ocotillo</i>
2:45 - 3:45 p.m.	GUEST SPEAKER <i>OCOTILLO MEETING ROOM</i> Indigenous Teaching and Learning Using Cultural Symbols - Exploring the Use of Mana and the Maze at TOCC Camillus Lopez, Senior Cultural Mentor at Tohono O'odham Community College
3:50 - 5 p.m.	TCU Math Pathway Journeys: Gallery Walk and Storytelling <i>Ocotillo Meeting Room</i>
5 - 5:30 p.m.	Closing Remarks <i>Ocotillo Meeting Room</i>

DAY 3

Sunday, June 19, 2022

8 - 8:30 a.m.	Breakfast <i>Ocotillo Meeting Room</i>
8:30 - 9:30 a.m.	Coming Full Circle - Taking Stock and Looking Ahead <i>Ocotillo Meeting Room</i>
9:30 - 10 a.m.	Closing Prayer and Remarks <i>Ocotillo Meeting Room</i>

Saturday, June 18, 2022

Community Celebration & Connection

9 - 9:45 a.m. | *Ocotillo Meeting Room*

The goals of this session are to connect and celebrate the people of our network. In mixed small groups and using discussion prompts, participants will have the opportunity to reconnect with colleagues and welcome new educators while learning about each other, finding commonalities, and sharing experiences.

OPENING KEYNOTE: MICHAEL LITTLE CROW

Indigenous vs. Industrial World Views: How teaching math with Inclusive Andragogy can bridge the divide

10 - 11 a.m. | *Ocotillo Meeting Room*

Math Talking Circles

11:05 a.m. - 12 p.m. | *Ocotillo Meeting Room*

Following indigenous principles of talking circles that are based upon equality between participants and promote dialogue, respect, and shared learning, we will hold small group discussions on topics salient to our network. Participants in each small group will have an opportunity to share, listen, and reflect on topics such as online instructional techniques to support engagement; assessment strategies; launching and implementing coreqs; and lessons learned during Covid; and more.

GUEST SPEAKER: CAMILLUS LOPEZ

Indigenous Teaching and Learning Using Cultural Symbols - Exploring the Use of Man in the Maze at TOCC

2:45 - 3:45 p.m. | *Ocotillo Meeting Room*

The "Man in the Maze" symbol has been interpreted in a variety of ways by O'odham elders throughout the past. It will be used to demonstrate how indigenous people have taught and passed on cultural teachings for generations and how it is being incorporated in teaching and learning at Tohono O'odham Community College. This session will invite the attendees to reexamine their own teaching styles and explore symbols from their own cultural heritage to assist in their teaching objectives.

TCU Math Pathway Journeys: Gallery Walk and Storytelling

3:50 - 5 p.m. | *Ocotillo Meeting Room*

Sunday, June 19, 2022

Coming Full Circle - Taking Stock and Looking Ahead

8:30 - 9:30 a.m. | *Ocotillo Meeting Room*

In our final session, we'll reflect and synthesize our collective journey to bring math pathways to TCUs and next steps for our community. Considering students, faculty, and institutions, we'll consider where we've been, where we are, and where we want to be.



Opening Keynote



Michael Little Crow

Lecturer, School of Mathematical and Statistical Sciences
Arizona State University

I am Michael Little Crow, I am an enrolled citizen of the Turtle Mountain Chippewa nation on my mother's side and of Saxon decent from my father. I have earned BS and MS degrees in Math Education from Oregon State University and am currently at the dissertation stage for an EdD in Educational Leadership and Innovation at Arizona State University. I have served as an adjunct math instructor at Scottsdale Community College continuously since Fall 2020. I was a full-time residential faculty at SCC from 2004 to 2018 where I served 2 years as the assistant math department chair.

I currently teach as a lecturer at ASU on the Tempe campus. I have conducted one faculty exchange and two student education abroad projects to Thailand working in urban, suburban, and rural schools. For a one-year sabbatical, I implemented a robotics program at a national high school in Kazakhstan as a means to gain greater understanding of math. With my South African Colleagues, Pat and Indira Naidoo, we formed the first ever National Kazakhstan Robotics Organization for the dissemination of inclusive educational practices for teaching robotics.

I have served continuously on the advisory board for the American Indian Programs office at SCC since 2004. Our most recent contribution to the college community was the creation and approval of our formal land acknowledgement for use by all SCC employees. My passion is to work to create a more inclusive community-based governance that takes into consideration the voice of our students, staff, and all faculty. I am one of six consulting participants on the Fire Circles, an organic indigenous concept of faculty directed professional development for math educators who serve indigenous communities. Our next series is scheduled for July 2022.

Guest Speaker



Camillus Lopez

Senior Culture Mentor
Tohono O'odham Community College

Camillus Lopez serves as the Senior Culture Menter at Tohono O'odham Community College. He also teaches as an adjunct instructor in the Tohono O'odham Studies program. His life work is many-faceted including teaching bi-lingual education, social work, tribal politics and presenting on a number of native spirituality-related topics.

He has co-authored and contributed in a number of literary, audio and video materials. He uses his cultural knowledge to assist people in using their own ancestry/historical makeup to empower themselves and others to be more successful in their journeys.

Attendee List

First Name	Last Name	Job Title	Institution	Email
Michael	Little Crow	Indigenous Math Educator / Lecturer	Arizona State University	michael.little.crow@asu.edu
Crystal	Green	TRIO Advisor	Bay Mills Community College	cgreen@bmcc.edu
Jan	Miller	Mathematics Department Chair	Bay Mills Community College	jmiller1@bmcc.edu
Danielle	Schofield	Student Advising Specialist	Bay Mills Community College	dschofield@gmail.com
Marley	Arechiga	Communications Coordinator	Carnegie Math Pathways	marechi@wested.org
Karon	Klipple	Director	Carnegie Math Pathways	kklippl@wested.org
Dan	Ray	Director of Network Relations	Carnegie Math Pathways	dray@wested.org
Jane	Reinke	Administrator Coach	Carnegie Math Pathways	jalberreinke@gmail.com
Lisa	Savcak	Assistant Director	Carnegie Math Pathways	lsavcak@wested.org
Mike	Sieve	Faculty Mentor	Carnegie Math Pathways	msieve.pathways@gmail.com
Paul	Verschueren	Faculty Mentor	Carnegie Math Pathways	pverschueren.pathways@gmail.com
Audra	Castonia	Math Instructor	College of Menominee Nation	acastonia@menominee.edu
Jennifer	Morris	Faculty	College of Menominee Nation	jmorris@menominee.edu
Kay	Holmes	Associate Professor, Department Chair	Institute of American Indian Arts	frances.holmes@iaia.edu
Andrea	Otero	Faculty	Institute of American Indian Arts	aotero@iaia.edu
Karen	Colbert	General Education Faculty Chair and Lead Math and STEM Faculty	Keweenaw Bay Objibwa Community College	kcolbert@kbocc.edu
Shasha	Han	Assistant math professor	Navajo Technical University	shan@navajotech.edu
Abdulmalb	Hussen	Assistant Professor of Mathematics	Navajo Technical University	ahussen@navajotech.edu
Joseph	Vanguardia	Math (Lecturer)	Navajo Technical University	jvanguardia@navajotech.edu
Dasha	Weatherman	Former TCU Faculty	Nebraska Indian Community College	dashachemist@gmail.com
Henry	Baang	Math Instructor	Nueta Hidatsa Community College	hbaang@yahoo.com
Constance	King Gottschall	Vice President of Student Services	Nueta Hidatsa Community College	Cfrank@nhsc.edu
John	Kellermeier	Retired	Other Institution	kellermeierjh@gmail.com
Jeffrey	Jones	Instructor	Red Lake Nation College	jeffrey.jones@rlnc.edu
Tami	Niswander	Chief Financial Officer	Red Lake Nation College	tami.niswander@rlnc.edu
Earle	Crosswait	Academic Specialist in Mathematics	Saginaw Chippewa Tribal College	ecrosswait@sagchip.edu
Amanda	Flaughner	Dean of Students	Saginaw Chippewa Tribal College	aflaughner@sagchip.edu
Gena	Qualls	Dean of Institutional Advancement	Saginaw Chippewa Tribal College	gequalls@sagchip.org
Heather	Bleecker	Secondary Math Education Director	Salish Kootenai College	heather_bleecker@skc.edu
Robin	Williams	Math Instructor	Salish Kootenai College	robin_williams@skc.edu
Md Mobarak	Hossain	Mathematics Instructor	Tohono O'odham Community College	mhossain@tocc.edu
Shaodong	Lin	Math Instructor	Tohono O'odham Community College	slin@tocc.edu
Camillus	Lopez	Senior Culture Mentor	Tohono O'odham Community College	calopez@tocc.edu
Belin	Tsinnajinnie	Research Associate	WestEd	btsinna@wested.org



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Thank you!