



INDIVIDUAL

COMMUNITY





INSTITUTIONAL



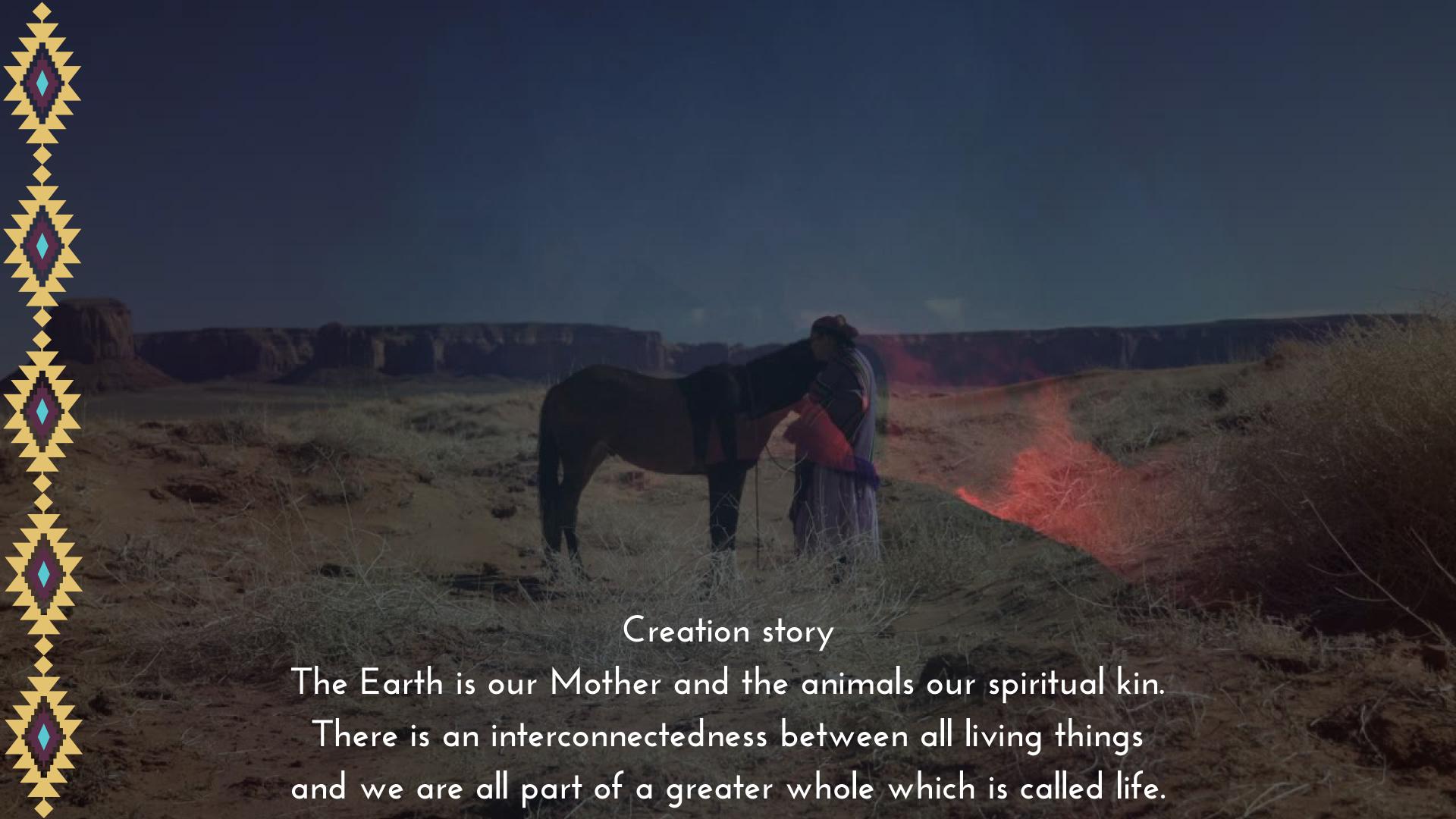


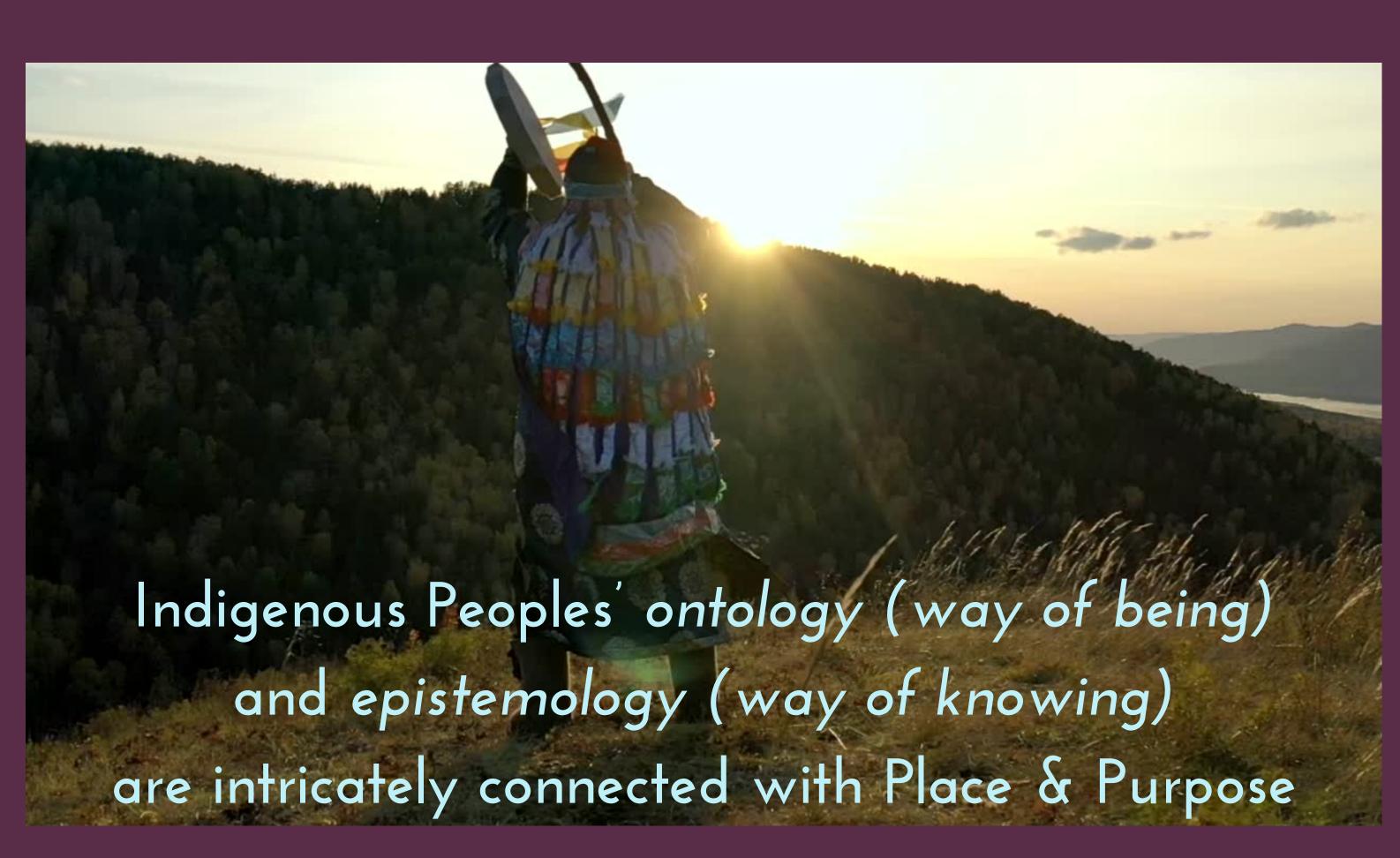


indigenous

/inn-dij-uh-nus/







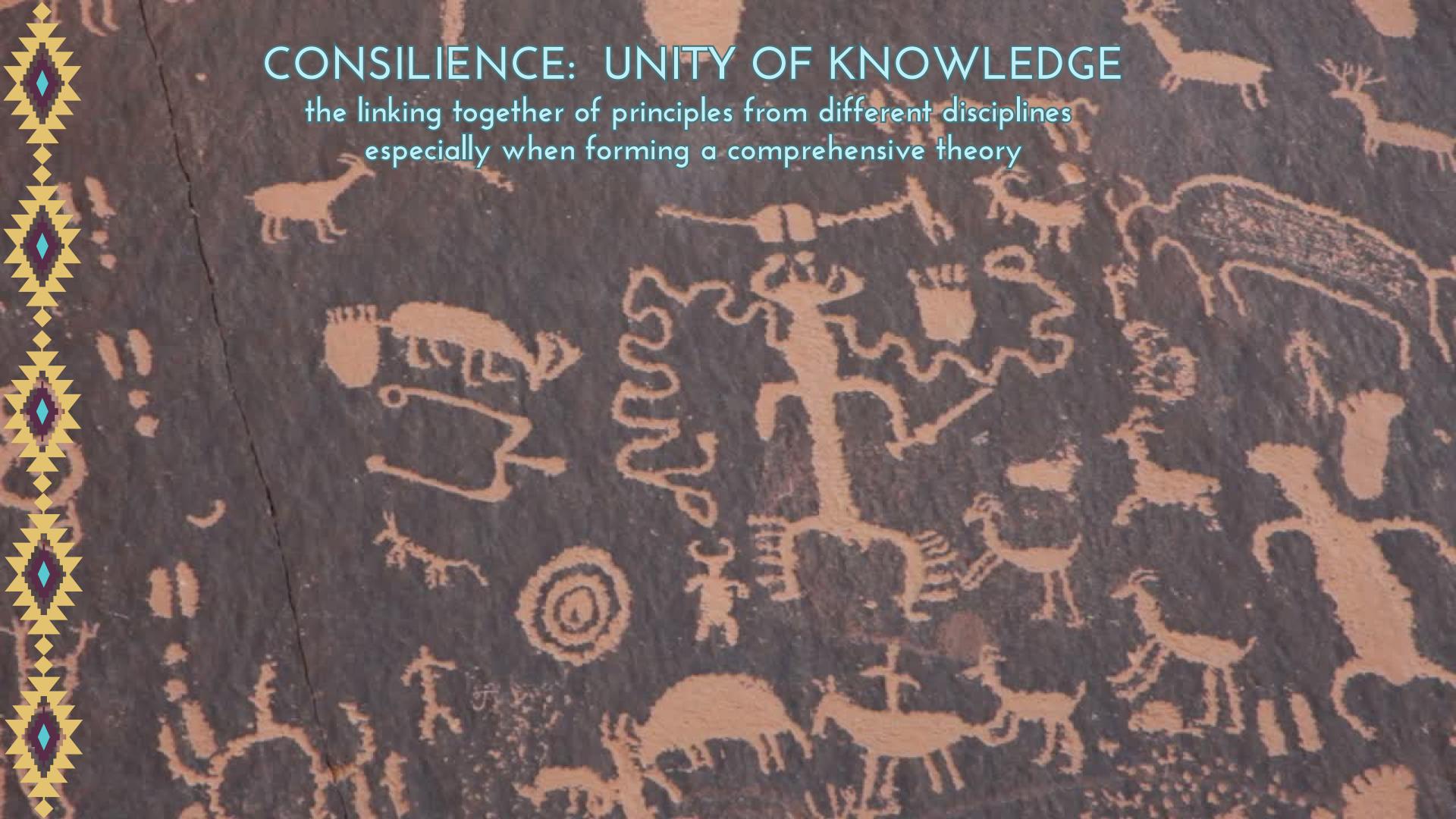














517

91

36

198

119

979

*1994 TCU Land-Grant

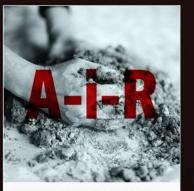
MISSION:

To empower creativity & leadership in Indigenous arts & cultures through higher education, lifelong learning, and community engagement."

- CINEMATIC ARTS & TECHNOLOGY
- CREATIVE WRITING
- INDIGENOUS LIBERAL STUDIES
- MUSEUM STUDIES
- PERFORMING ARTS
- STUDIO ARTS

Happeni

Here you will find IAIA Hageenings. For IAIA Community happenings like student dub events. ASG meetings, community-only workshops, and other campus happenings, visit the IAIA Community C









Sat, October 7, 11:00 am-5:00 pm
Save the date for the 2023 IAIA Fall Powwow on Saturda

Latest News

The most recent news, press releases, and updates from the Institute of American Indian Arts. View all New



IAIA's Featured Article in the SWAIA Booth Directory—"A Portal to Indigenous Fashion"

For the Official Santa Fe Indian Market Artist Directory & Booth Gui IAIA Communications Writer Neebinnaukzhik Southall (Chippewas Rama First Nation) '19 wrote 'Portal to Indigenous Fashion.'



Anna Rathmann, Executive Director at The Jane Gooda Institute USA, and the Partnership with IAIA

The Jane Goodall Institute's (JGI) partnership with IAIA increases programming for both IAIA's Land-Grant and the JGI's Roots & Shoo



Action/Abstraction Redefined opens at the Saint Louis Art Museum

The IAIA Museum of Contemporary Native Arts' national traveling exhibition Action/Abstraction Redefined (A/AR) successfully opened the Saint Louis Art Museum in Missouri.



itute of American Indian Arts—August 2023 Events



Jul 20, 2023

uly 14, 2023, the White House announced that President Bide



IAIA Alumni Spotlight—Sydney Isaacs (Tlingit) Jul 17, 2023





INDIGENOUS YOUTH AGRICULTURE PROGRAM



LAND-GRANT PROGRAMS















- IYA YOUTH PROGRAM (K-12)
- IYA STUDENT MENTOR-IN-TRAINING (EDU)
- IYA GUIDE-THE-MENTOR (COLLEGE STUDENTS)

SOUTHWEST AND INTERMOUNTAIN GARDENING AND GREENHOUSE

• INDIGENOUS FOODS WORKSHOPS

• GROWING FOOD ON THE IAIA CAMPUS AND SHARING WITH OUR

COMMUNITY

















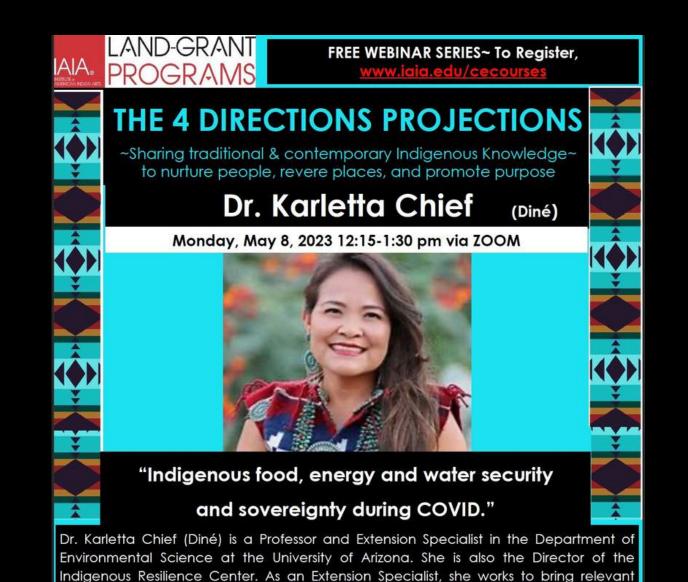




4 DIRECTIONS PROJECTIONS:

SHARING TRADITIONAL & CONTEMPORARY INDIGENOUS KNOWLEDGE TO NURTURE PEOPLE, REVERE PLACES, & PROMOTE PURPOSE.



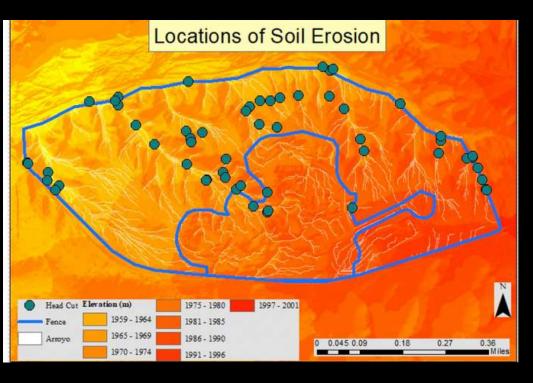


water science to Native American communities in a culturally sensitive manner. The Indigenous Resilience Center aims to facilitate efforts of UArizona climate/environment researchers, faculty, staff, and students working with Native Nations to build resiliency to climate impacts and environmental challenges. Two of her primary tribal projects are The Pyramid Lake Paiute Tribe Climate Adaptation and Traditional Knowledge Project and Gold King Mine Spill Diné Exposure Project. In partnership with Diné College, Dr. Chief leads the NSF Indigenous Food, Energy, and Water Security and Sovereignty Program and is training 39 graduate students. Indige-FEWSS's vision is to develop a diverse workforce with intercultural awareness and expertise in sustainable food, energy, and water systems (FEWS), specifically through off grid technologies to address

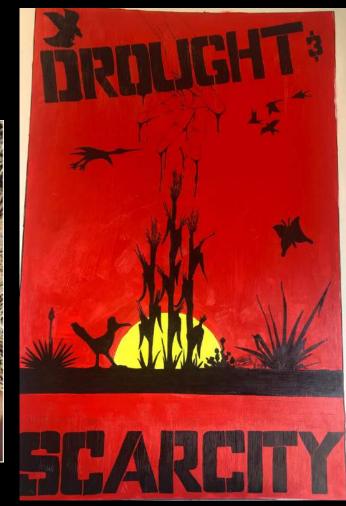
the lack of safe water, energy, and food security in Indigenous communities.



HABITAT RESTORATION PROJECTS













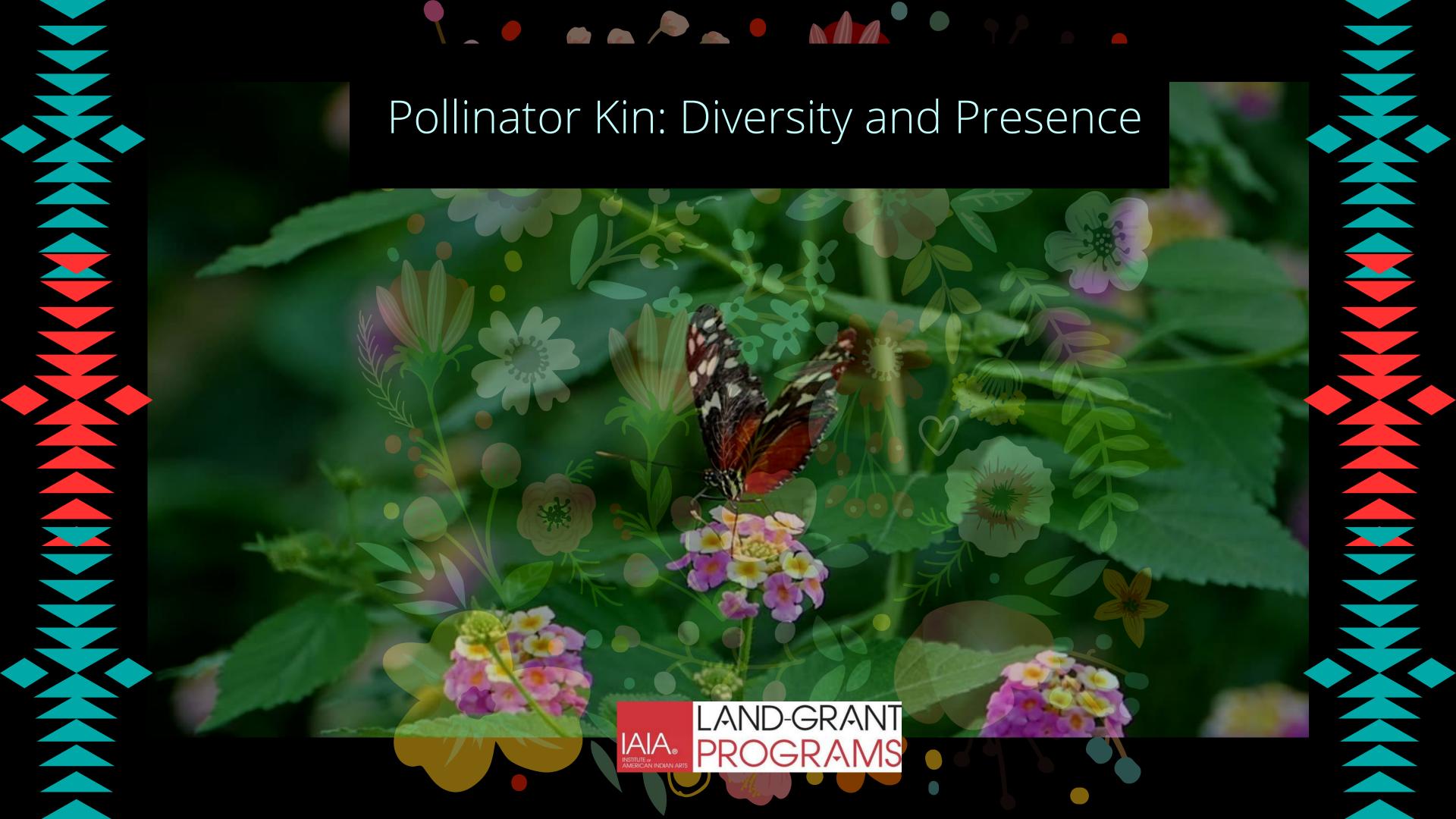


CONTEXTUALIZING CULTURE





Indigenous Knowledge Systems are relational tapestries weaving observations and experiences of lands and reciprocity of cultural interactions bound by communities.





INTERCONNECTED STEWARDSHIP

WEAVING INDIGENOUS ARTS & SCIENCES FOR ENVIRONMENTAL OUTREACH

MELANIE M. KIRBY~ EXT. ED TERESA K. QUINTANA~ PROGRAM ASSOC. PAUL QUINTANA ~ GARDENER LAURIE LOGAN-BRAYSHAW ~ DIRECTOR











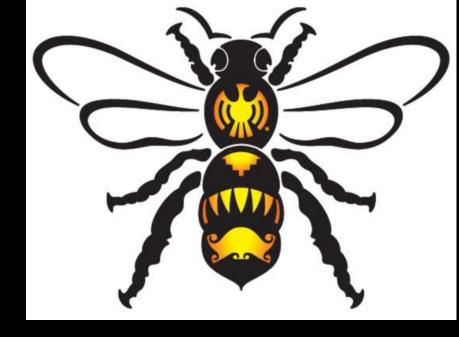
THUNDER BEE & POLLINATOR HABITAT PROGRAM

TRIBAL BEEKEEPING PROGRAM (3 YRS.)

USDA- ARS SW CLIMATE ADAPTATION SCIENCE CENTER

USDA-OTR GRASSLANDS & POLLINATORS COOP AGREEMENT

NIFA NEW DISCOVERIES TRIBAL RESEARCH GRANT

















GRASSLANDS & POLLINATORS

















Members

Christina Grozinger

Penn State University University Park, PA

Term: first, ends FY2025 on 9/30/25

Daniel Schmehl

Bayer Crop Science Chesterfield, MO

Term: first, ends FY2025 on 9/30/25

Danielle Downey

Project Apis m.

Salt Lake City, UT

Term: first, ends FY2025 on 9/30/25

Darren Cox

Cox Honey of Utah

Mendon, UT

Term: first, ends FY2025 on 9/30/25

Hollis Woodard

University of California, Riverside

Riverside, CA

Term: first, ends FY2025 on 9/30/25

Kelly Bills

Pollinator Partnership San Francisco, CA Term: first, ends FY2025 on 9/30/25

Margarita Lopez-Uribe

The Pennsylvania State University University Park, PA

Term: first, ends FY2025 on 9/30/25

Melanie Kirby

Institute of American Indian Arts Santa Fe, NM

Term: first, ends FY2025 on 9/30/25

Ramesh Sagili

Oregon State University Corvallis, OR

Term: first, ends FY2025 on 9/30/25



Pollinator Subcommittee

The Pollinator Subcommittee is the newest subcommittee of the National Agricultural Research, Extension Education, and Economics (NAREEE) Advisory Board. The Board is led by staff in the Office of the Chief Scientist (OCS), in the Research, Education, and Economics (REE) Mission Area.

This subcommittee is advisory in nature and members will be asked to make pollinator health-related recommendations, reviews, and consultations to the NAREEE Advisory Board (and subsequently to REE, other USDA mission areas, and federal pollinator coordinators) on national priorities, research needs, and best available science in informing USDA pollinator-related policy and program decisions.

Please visit <u>usda.gov/pollinators</u> to learn more about USDA pollinator initiatives. With 17 offices with pollinator portfolios, USDA supports the critical role pollinators play in agriculture through research and data collections, diagnostic services and pollinator health monitoring, pollinator habitat enhancement programs, pollinator health grants, and financial assistance programs.

Menu

▼ Indigenous Ways of Knowing

1 Welcome

Welcome Video

Module overview

Learning outcomes

Reflecting questions

MAIN MENU

CREDITS

RESOURCES

TOPICS

Characteristics of Indigenous k...

Sources of indigenous knowled...

Indigenous Axiology: Values an...

Ojibwe Seven Grandfather Teac...

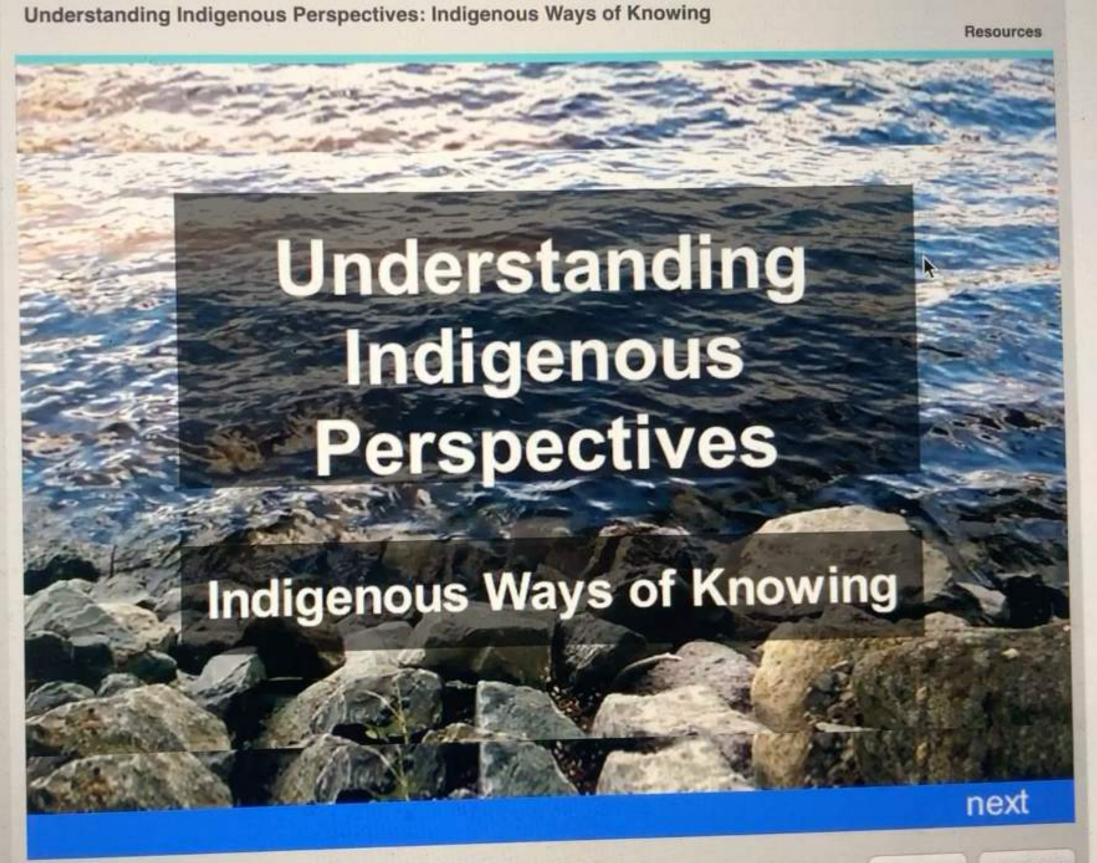
Indigenous knowledge and We...

Indigenous languages VIDEO

Indigenous knowledge and lear...

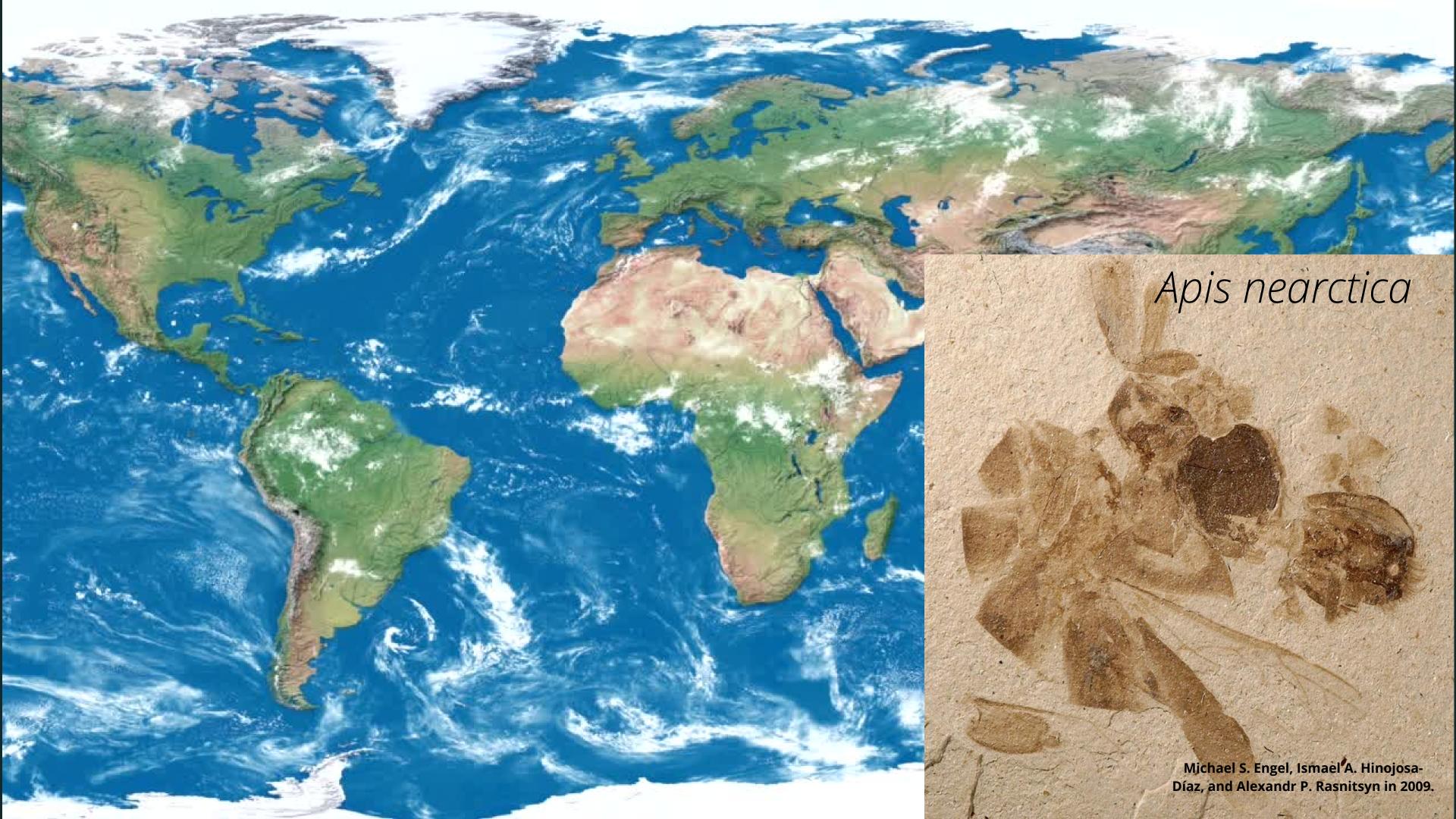
Suggested Activities

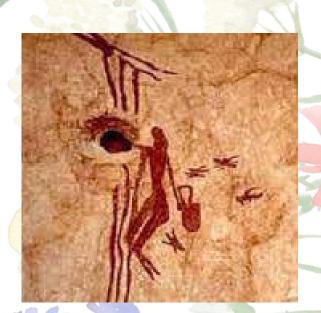












POEH POVI: THE FLOWER PATH

Indigenous Matriarch Collective for Pollinator Habitat Advocacy

Melanie M. Kirby, Roxanne Swentzell, Addelina Lucero, Teresa K. Quintana, Beata Tsosie-Peña

Tortugas Pueblo: Tiwa/Mescalero Apache/Mestiza- MSc. Entomology, Interdisciplinarian: Science + Art + Culture; 2Santa Clara Pueblo/Kha'p'oe Ówîngeh: Tewa- PhD. Indigenous Arts & Culture, Food Sovereignty Farmer; 3 Taos Pueblo: Tiwa/Yaqui/Chicana - Ethnobotanist, Seed-keeper, Food Sovereignty Educator; 4Kiowa/Cochiti Pueblo - Indigenous Land Steward, Gardener, Educator; 5 Santa Clara Pueblo/Kha'p'oe Ówîngeh: Tewa - Poet, Doula, Seed-keeper, & Land Defender











Indian tribes which include: 19 Federally-recognized Pueblos, such as Acoma, Cochiti, Isleta, mez, Laguna, Nambe, Ohkay Owingeh, Picuris, Pojoaque, Sandia, San Felipe, San Ildefonso, Santa Ana, Santa Clara, Santo Domingo, Taos, Tesuque, Zuni & Zia; 3 Apache tribes, namely the Fort Sill Apache Tribe, the Jicarilla Apache Nation and the Mescalero Apache Tribe. The Apache also include

Fig 6. Acres: 341,735/ Personnel: 402 ~ Start Date: Calf Canyon: April 19, 2022 fires from prescribed burn: Calf Canyon: Holdover fire ocation: 12 miles NW of Las Vegas, NM Fuels: Heavy mixed conifer, ponderos pine, brush, and grass



Peak: April 6, 2022; Calf Canyon: April 19, 2022 | Cause: Hermits from prescribed pile burn | Location: 12 miles NW of Las Vegas,







Poeh Povi-The Flower Path is a collective of Indigenous Matriarch beekeepers, farmers, educators, artists and culture bearers with projects across Northern New Mexico Indigenous and neighboring communities with shared public lands, forests, and watersheds that focus on:

- Building seed sanctuaries
- Organizing community wildflower seed plantings
- Revitalize wildfire impacted zones
- Develop inclusive pollinator stewardship
- Culturally relevant outreach materials
- Establishment of pollinator preserves across northern New Mexico

with Indigenous youth and elders and diverse community organizations.

This initial project is the launching point for the Land of Enchantment Pollinator Preserve Initiative. he Land of **Enchantment Pollinator Preserve Initiative. This initiative focuses** on connecting community stakeholders to develop collaborations Hermits Peak: April 6, 2022; for learning from and working with each other as we adapt to shifting climate issues, the need for rebuilding habitat from devastating environmental catastrophes- such as the recent wildfires in northern New Mexico and share in the responsibility to ensure that the coming generations are exposed to ancestral and sustainable western science knowledge systems.



eed saving that often included optimal clay. Form into balls or coils and nits that lasted for hundreds of years itterns and systems, and associcultural meaning to the different stage



pted seed mixes to shredded cycled paper pulp dissolved in

g. 2 Bronze sculpture by Poeh



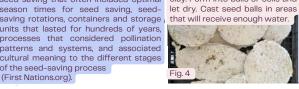
















<u>LongeviBees</u>





New Mexico















In Her Majesty's Chambers:



Introduction to Queen Honey Bee Breeding & Rearing



Zia Queenbees Farm & Field Institute

Field Guide

Melanie Kirby

The Southwest Survivor Queen Bee Project 2007-2009 www.sare.org Project #FW07-032

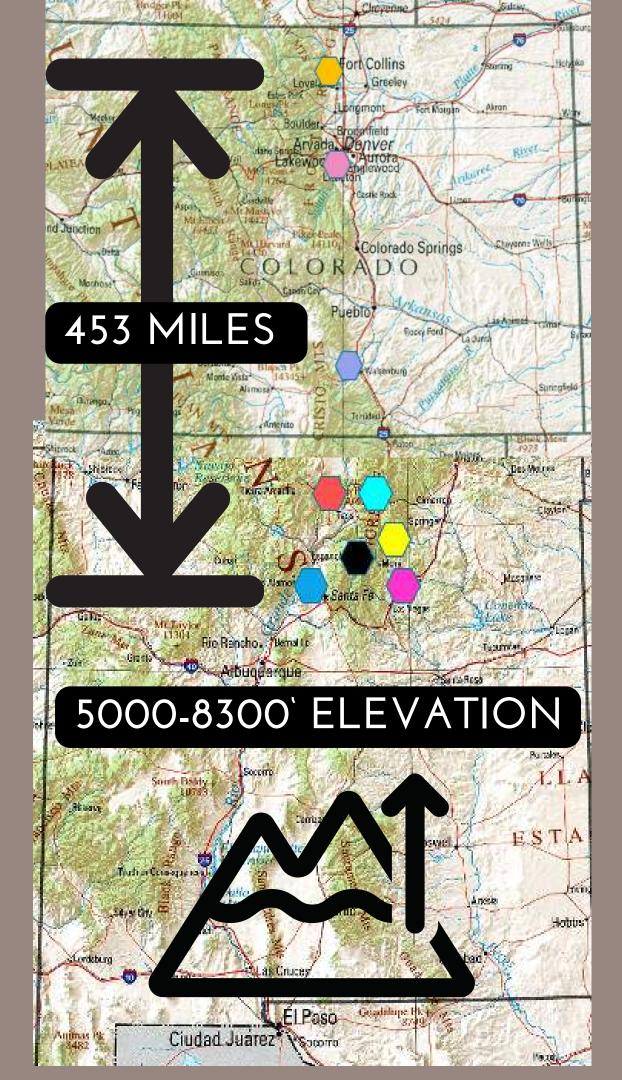


ROCKY MOUNTAIN SURVIVOR QUEENBEE COOPERATIVE



WSARE* Project OW12-096 Reference Manual

Funded by WSARE 2012—Faciliated by Melanie M. Kirby



- Ft. Collins 5,003'/ 1,523m
- Denver 5,183' / 1,580m
- Walsenburg
 Spanish Peaks
 6,182'/ 1,881m
 - Mora7.172'/2186m
 - Arroyo Hondo
 6,798'/2,072m
 - Arroyo Seco 7,629'/2,325m
 - Santa Fe 7,260'/2,213m
 - Buena Vista 6,998'/2,133m
 - Truchas 8300'/ 2,530m



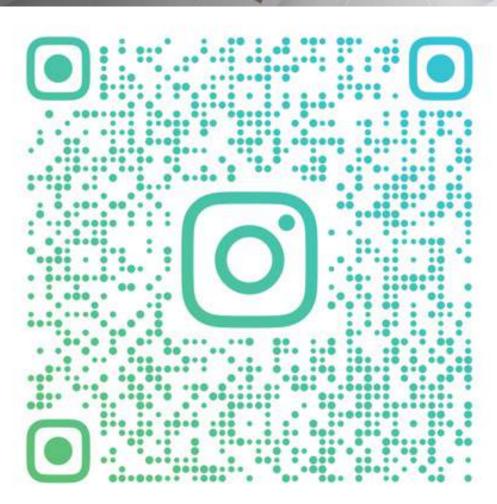








Strategies for the Future... Open Source Professional Development

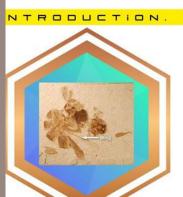


@ADAPTIVEBEEBREEDERSALLIANCE



ADAPTIVE BEE BREEDERS ALLIANCE

BUILDING COMB BETWEEN THE FIELD AND THE LAB~ FROM CASTLE TO CASTLE



NTRODUCTION. The discovery of Apis nearctica¹² (fig.1) inspires ABBA aims to build comb between the field investigation into Apis mellifera. emigration, and the lab and support small to mid-scale migration, and stewardship to delve deeper bee breeders in their efforts to investigate and into the history of American honey bee preserve developing American Apis m. genetics and how today's gene flow of ecotypes, germplasm collection for integration contemporary cousins to this ancestor bee has and exchanges of naturally resilient strains, been impacted by land stewardship practices, cryopreservation, Drone Congregation Area selection, climate change and adaptation³, assessments (DCAs), development of whole These factors impress upon the increasing system methods for adaptive bees for challenges of breeding resilient and adaptive mitigating climate change challenges. ecotypes, especially as the movement of honey Objectives include regionally-adaptive Bee bees across the North American continent has Breeding & Management reference field not been with the upmost care of circumstance guides, professional development opportunities, and at a detriment to biodiversity conservation and applied research practices for selective (fig. 2)⁵. This Research to Grassroots (RGR) grant bee breeding approaches across the United funded by Western Sustainable Agriculture States ~ from the western coastal mountains, Research Education (WSARE)⁶ is based on two high deserts, intermountain forests and tundra, previously funded WSARE grants: The to the plains, swamps, and eastern woodlands. Southwest Survivor Queenbee Project (Kirby, This project has been awarded funding starting 2007),7 and The Rocky Mountain Survivor 2022 - 2025 with fiscal agency by NM Queenbee Cooperative (Kirby, 2012)8

Community Capital⁹.

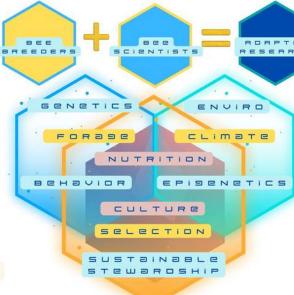


Fig. 2 Infographic of the varied and dynamic interface between environmenta and

naterials & methods

- Samples from each haploid drone breeding pool will be sent to Purdue for genomic
- Quantitative Trait Loci (QTLs) review by Purdue will be used to interpret heritable traits.
- A cross-section of diploid sisters will be assessed for Mitochondrial DNA by Texas A&M.
- Tropical epigenetics, longevity, and hygienic behavior will be reviewed by Univ. of Hawaii.
- Uncapping assessments will be reviewed by Univ. of Hawaii.
- Nutrition analysis and pesticide residue analysis in bee bread and honey in breeder colonies will be analyzed by UNL.
- Viral and disease analysis on breeding stock will be conducted by Michigan State Univ.
- Instrumental Insemination trainings will be facilitated by Mahoney Bees & Queens.
- Liquid Nitrogen Germplasm Cryopreservation will be housed by Washington State Univ and USDA National Germplasm Bank in Fort Collins, CO.
- Unhealthy Brood Odor pheremone (UBÖ) will be prepared Univ. of North Carolina-Greensboro and participating producers will conduct assays for hygienic assessment. • UAVs will help to determine participating producers' Drone Congregation Areas in their
- respective locals with training from GA Master Beekeeper. • Comparative studies on stewardship approaches will be conducted by Penn State.
- · Longevity selection protocol development with haploid drone stock will be assisted
- · by USDA-ARS Baton Rouge.

(2) MEGAN MAHONEY TEXAS & NORTH DAKOTA: MAHONEY BEES & QUEENS,

(8) MARK SPITZIG-NEW MEXICO & CALIFORNIA: LONGEVIBEES. (9) TUCKA SAVILLE-FLORIDA & NEW YORK: TUCKA BEE, LLC.

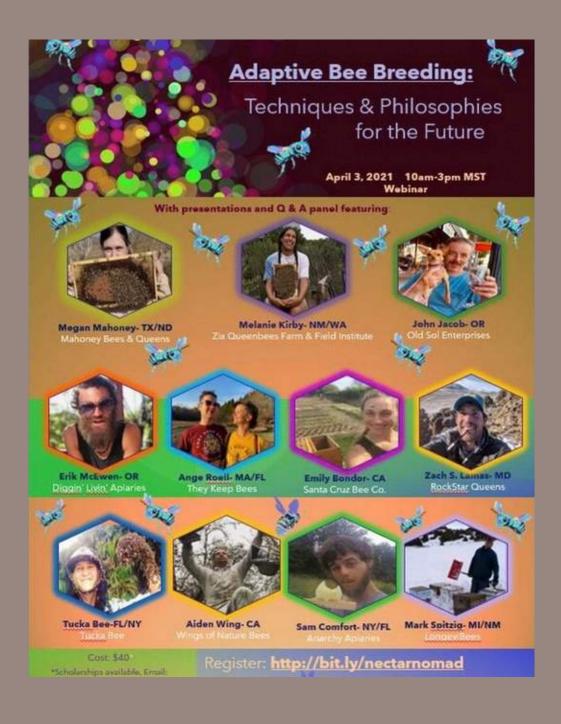
(11) ZACHARY LAMAS, PHD.- VERMONT & USDA-ARS BELTSVILLE: ROCK STAR QUEENS (12) CARL CHESICK-NORTH CAROLINA: CENTER FOR HONEY BEE RESEARCH. (13) ETHEL VILLALOBOS, PHD - UNIV OF HAWAIL

ACHNOWLEDSEMENTS.

- Producer interest in developing field assays will be consulted with Oregon State Univ.
- Selection & Breeding Practices (BBP) Anthology will be co-authored by all participating producers and reviewed by all participating scientists.
- All publications will be open source and published on the ABBA website.



- JOHN JACOB OREGON & CALIFORNIA: OLD SOL APIARIES, 5) AIDEN WING- CALIFORNIA; WINGS OF NATURE BEES, (7) EMILY BONDOR- CALIFORNIA: SANTA CRUZ BEE CO. (10) ERIC MCEWAN OREGON & CALIFORNIA: DIGGIN' LIVIN' APIARIES, (21) MARGARITA LOPEZ-URIBE, PHD.- PENN STATE UNIV (22) MEGAN MILIPRAITH PHD- MICHIGAN STATE UNIV









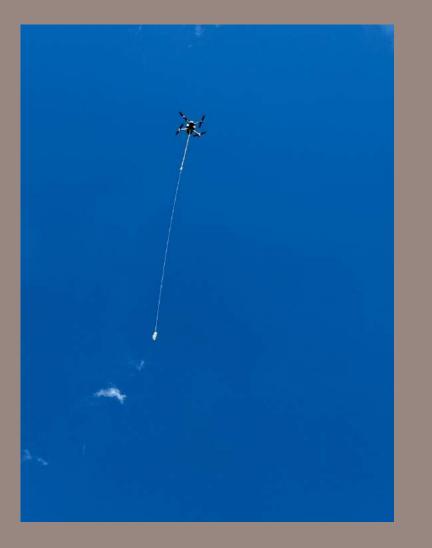


















In response to a 2014 Presidential
Memorandum to: "engage State and
tribal environmental, agricultural, and
wildlife agencies in the development of
State and tribal pollinator protection
plans"





Basic information

This Memorial will formalize the New Mexico State
Beekeepers Association's (NMBKA) Pollinator
Protection Plan (PPP). This plan is a collaboration
between all stakeholders (pesticide applicators,
farmers, landowners, beekeepers, and others) to
protect pollinators through the establishment of best
management practices.



Important Facts

A working group will be established to enhance pollinator health through community education and outreach, and data collection.

This working group will collect data annually on the number of both hobbyist and commercial beekeepers and managed honey bee colonies in the state of New Mexico.

3 Data collection can help groups such as the New Mexico Department of Agriculture, NMBKA, and others request funding for research and other projects.

The Intention of PPPs

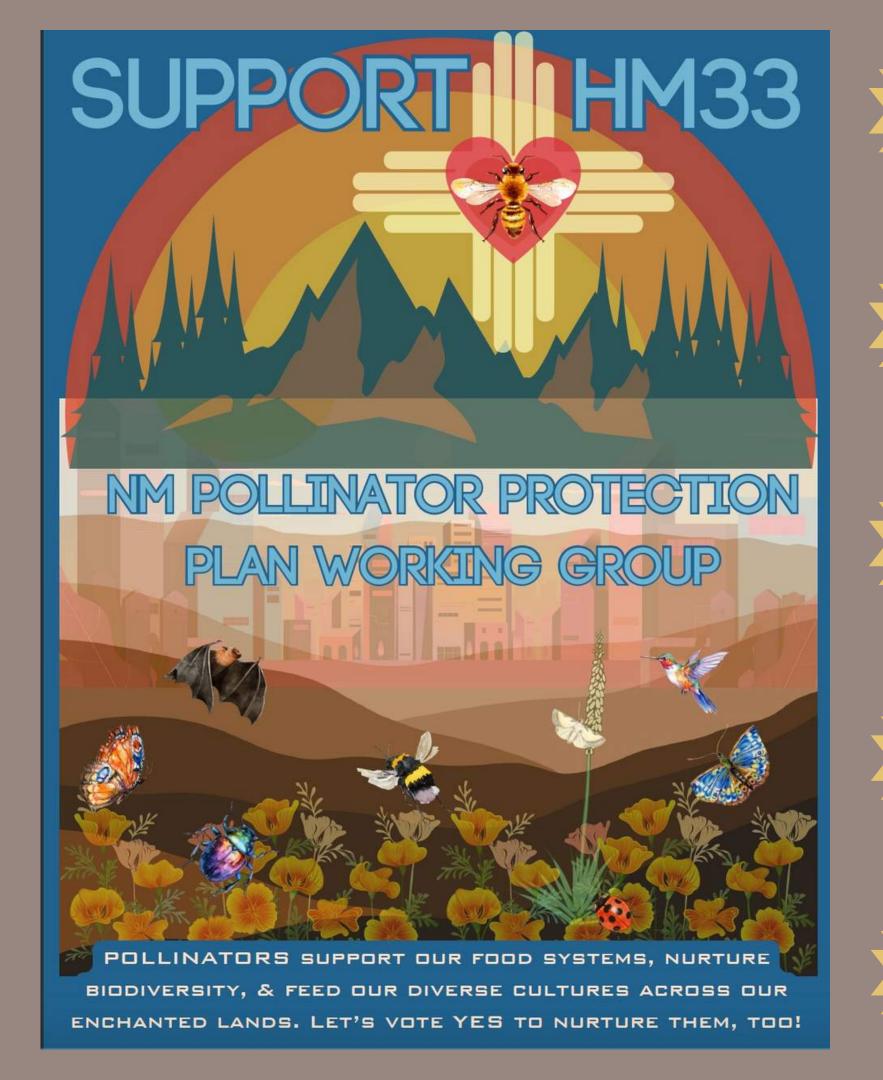
PPPs give states the opportunity to bring stakeholders together in a collaborative effort to protect pollinators outside of a regulatory infrastructure. These plans can be tailored to each state's specific needs and circumstances.

Education, Outreach, and Data

This Memorial will provide groundwork for future collaborations and efforts to protect pollinators.

To view NMBKA's full Pollinator Protection Plan and to sign Letters of Support go to nmbeekeepers.org/ppp or use this QR code





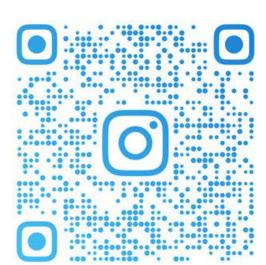






®ZIAQUEENBEES





©NECTARNOMAD





@FLOWERPATH_POEHPOVI





ROCKY MOUNTAIN POLLINATOR INSTITUTE

UTURE FORWARD STEWARDSHIP