

TRIBAL AIR MONITORING SUPPORT (TAMS) CENTER



Presented by:
Mike Natchees
TAMS Steering Committee
Member

And

Hayden Hardie
EPA Co-Director , TAMS

TAMS WEBSITE

- Web search “NAU TAMS”
- Screenshot of webpage below:

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Home ITEP Home TAMS ABOUT TAMS CONTACT

Training Services Online Resources Steering Committee Publications & Documents V.M. Learning Center

About Us:

TAMS Center is a technical training center designed specifically to meet the needs of tribes involved in air quality management. [Learn More >](#)

Welcome [TAMS Steering Committee](#) [Virgil Masayesva Award](#) [TAMS Needs Assessment](#) [TAMS Listserv](#)

Tribal Air Monitoring Support Center

US EPA - TAMS Center
4220 S. Maryland Parkway Bldg C
Las Vegas, NV 89119
itep@nau.edu

Welcome to Tribal Air Monitoring Support Center

The TAMS Center offers different training courses that focus on a variety of topics related to ambient and indoor air quality monitoring. To date, over 1,900 tribal professionals have been trained by the TAMS Center, representing 298 tribes.

TAMS Center courses have been designed to complement other American Indian Air Quality Training Program courses, and generally address more advanced air quality issues. Each course is designed with tribal audiences and issues in mind, integrating tribal case studies and tribal professionals as part of the instructional team in every course. Class size is kept to a minimum to ensure a higher level of interaction and one-on-one training opportunities with the instructors.

Co-Director:
Christopher Lee
702-784-8278
Christopher.Lee@nau.edu

TAMS-EPA Co-Director:
Hayden Hardie
702-784-8263
Hardie.Hayden@epa.gov

22 YEARS OF SERVICE



The Mission

The Partnership

TAMS Steering Committee

The TAMS Center Services

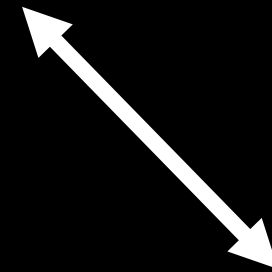
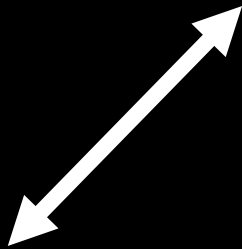
THE MISSION

Established in 2000

... to develop tribal capacity to assess, understand, and prevent environmental impacts that adversely affect health, culture, and natural resources.



THE PARTNERSHIP



TAMS STEERING COMMITTEE

- Established in February 2000.
- Advisory body composed of seven tribal representatives from different tribal air programs.
- Provide input regarding air monitoring priorities for tribes across the country.



TAMS CENTER SERVICES

- Training courses at Virgil Masayesva Environmental Learning Center in EPA's Facility in Las Vegas, NV
(AKA "The TAMS Center")
- Professional Assistance
- Equipment Loan Program
 - Ambient Air Monitoring
 - IAQ Diagnostic Equipment
- * Tribal Air Toxics Monitoring
- * Gravimetric Laboratory Service



TAMS COURSES

Pictures of students in TAMS Courses

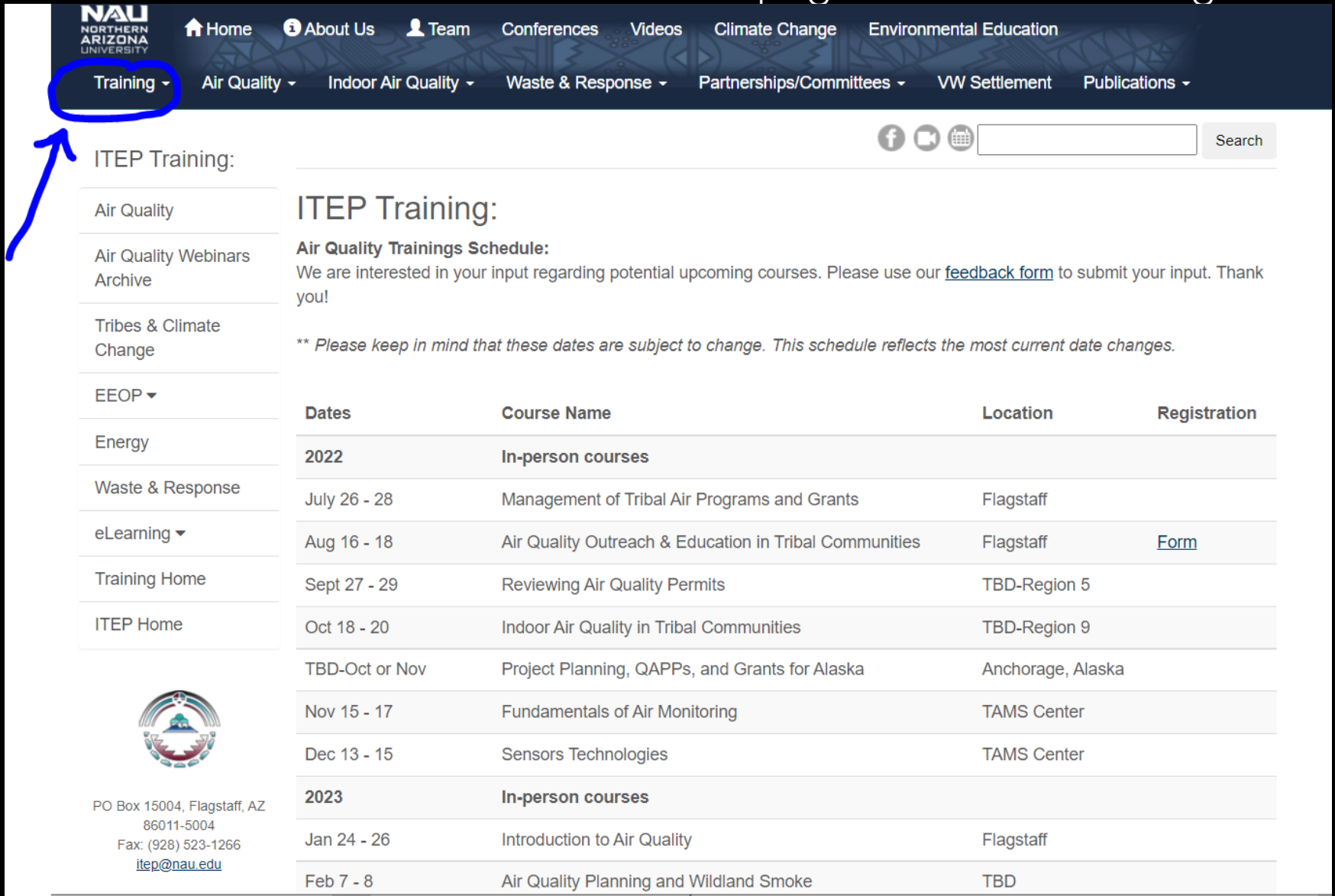


COURSES OFFERED CONTINUED

- Indoor Air Quality
- Treatment as a State
- Permit Review
- Fundamentals of Air Monitoring
- Emissions Inventory
- Quality Assurance Project Plan
- GIS for Air Quality
- Air Pollution Technology
- Data Management

COURSES OFFERED

Screenshot of Webpage with course offerings



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Training Air Quality Indoor Air Quality Waste & Response Partnerships/Committees VW Settlement Publications

ITEP Training:

- Air Quality
- Air Quality Webinars Archive
- Tribes & Climate Change
- EEOP
- Energy
- Waste & Response
- eLearning
- Training Home
- ITEP Home

Air Quality Trainings Schedule:

We are interested in your input regarding potential upcoming courses. Please use our [feedback form](#) to submit your input. Thank you!

*** Please keep in mind that these dates are subject to change. This schedule reflects the most current date changes.*

Dates	Course Name	Location	Registration
2022			
In-person courses			
July 26 - 28	Management of Tribal Air Programs and Grants	Flagstaff	
Aug 16 - 18	Air Quality Outreach & Education in Tribal Communities	Flagstaff	Form
Sept 27 - 29	Reviewing Air Quality Permits	TBD-Region 5	
Oct 18 - 20	Indoor Air Quality in Tribal Communities	TBD-Region 9	
TBD-Oct or Nov	Project Planning, QAPPs, and Grants for Alaska	Anchorage, Alaska	
Nov 15 - 17	Fundamentals of Air Monitoring	TAMS Center	
Dec 13 - 15	Sensors Technologies	TAMS Center	
2023			
In-person courses			
Jan 24 - 26	Introduction to Air Quality	Flagstaff	
Feb 7 - 8	Air Quality Planning and Wildland Smoke	TBD	

PO Box 15004, Flagstaff, AZ
86011-5004
Fax: (928) 523-1266
itep@nau.edu

PROFESSIONAL ASSISTANCE

Pictures of professional assistance activities



PROFESSIONAL ASSISTANCE

- Development of your QAPP
- Assistance with Emissions Inventories
- Technical Assistance with equipment
- Assistance with Data Management
- Program Development



EQUIPMENT LOAN PROGRAM

TRANSITION TO HAYDEN HARDIE

- EPA purchased technical equipment
- Designated for loan to tribes
- Covers multiple air disciplines:
 - Ambient Air Programs (CAA / NAAQS)
 - Indoor Air Programs



EQUIPMENT LOAN PROGRAM

- Monitors

- MetOne BAM 1020 (PM 2.5)
- MetOne BAM 1022 (PM 2.5)
- EBAM (PM 2.5)
- Teledyne T640 (PM 2.5)
- Teledyne T100 (SO₂)
- Teledyne T200 (NO_x)
- Teledyne T400 (O₃)
- Partisol 2000i (PM 2.5)



EQUIPMENT LOAN PROGRAM

Flow Calibration equipment

- Mesa Labs Defender 530 (Low and Med)
- Teledyne T703 Calibrator / Standard Ozone
- Teledyne T701H Zero Gas Generator
- Tisch TE-5040A PUF Flow Calibrator
- Teledyne T700 Dilution Calibrator
- Mesa Labs BGI Delta Cal
- Mesa Labs Tri Cal



EQUIPMENT LOAN PROGRAM

- Other Items

- MetOne GT-526s (PM)
- TSI Dust Trak II 8530 (PM)
- Aeroqual Series 500 (PM)
- 3m EVM 3 (PM)
- TSI 7575 Q-Trak IAQ Calc (CO2, CO IAQ)
- TSI 7515 IAQ Calc (CO2 IAQ)
- TEC Blower Door (IAQ)
- DG-700 Pressure/Flow (IAQ)
- Fluke CO Meters (IAQ)
- Fluke Thermal Imagers (IAQ)
- Fluke IR Thermometers (IAQ)
- Extech Digital Psychrometers (IAQ)
- Delmhorst TechScan Moisture Meter (IAQ)
- Rad Elec EPERM System (Radon)
- Saphymo Alphaguard PQ2000 Pro (Radon)

HOW THE LOAN PROGRAM WORKS

Purpose is to assist tribes in completing a specific project or improve /expand their air monitoring program.

- Step 1 – Contact the TAMS program
- Meet to discuss program goals and needs
- Assist in determining most appropriate equipment
- Complete the Equipment Loan Program Agreement
- TAMS will Ship Equipment to the Tribal Representative
- Loan terms are for 1-Year Period (May be extended)
- Maintain contact with TAMS on project/program
- Return equipment in good working order.

ARP FUNDING FOR TAMS

- National Tribal Air Association and the TAMS Steering Committee requested ARP funds for the TAMS Center.
- EPA Recognized the value that TAMS has in reaching tribal communities nationwide
- TAMS requested \$327,000 in funding to purchase new air monitoring equipment
 - Replacement of old equipment
 - Provide greater capacity of the loan program
 - Increase capacity to provide training on new technology

ARP FUNDING FOR TAMS

- Proposed equipment
 - Mesa Labs Delta Cals and Defender 530s
 - Alicat Flow calibration
 - Thingy AQ
 - AQ Mesh Sensors
 - Meteorological Station
 - GOES Transmitter
 - EBAMs, BAM 1020s, BAM 1022s
 - TSI Dust Trak 8530s
 - CR1000x Data loggers
 - Teledyne T101 H₂S Analyzer
 - Hi Vol PUF Sampler
 - Supporting Consumable Items

ARP FUNDING FOR TAMS

Challenges

- Supply Chain Issues
- Volume of purchases
- FITARA (Federal Information Technology Acquisition Reform Act)
- Staffing

THANK YOU!

- **Co-Directors:**

Christopher Lee (ITEP)

702-784-8278

Christopher.Lee@nau.edu

Hayden Hardie (EPA)

702-412-9043

Hardie.Hayden@EPA.GOV

- Steering Committee members on services offered at the TAMS Center

- <https://www7.nau.edu/itep/main/tams/Home/>

