Connecting Tribal and Pacific Rim Colleges to Improve Indigenous Environmental Technology Education

NSF ATE DUE #1204627
National PETE

- National not-for-profit organization
- **Mission:** To provide leadership in environmental education and training through community and technical college partnerships with business, industry, government, and other educational providers
National PETE, Continued

• Work with 400+ Community Colleges that offer Environmental, Health & Safety, Energy, Homeland Security & Green Technology Programs

• Affiliated Council of the American Association of Community Colleges (AACC)
Project Administration

- **Steering Committee**
  - Kirk Laflin, PI
    National PETE
  - Gary Halvorson, Co-PI
    Sitting Bull College
  - Joni Kerr, Co-PI
    Guam Community College
  - Zetra Wheeler, Co-PI
    Salish Kootenai College
  - Mari Eggers
    Montana State University
  - Chulee Grove
    Honolulu Community College
  - Mike DeSpain
    Mechoopda Indian Tribe
  - Jennifer Worth
    American Association of Community Colleges
  - Ellen Kabat Lensch
    Eastern Iowa Community College
  - Sarah Gross
    National PETE

- **NSF Project Officer**
  - David Brown
Project Objectives

1. To provide educators with technical and pedagogical skills to better instruct indigenous students and prepare them for new and sustainable “green jobs.”

2. To provide Pacific Rim and Tribal colleges with college-specific technical assistance to improve STEM programming.
Technical Assistance

- College-specific program planning and/or program improvement:
  - Conduct Program Assessment
  - Develop an Environmental Technology Jobs Chart
  - Develop or improve a plan for student recruitment, tracking and retention
  - Develop a local Advisory Committee

Technical Assistance provided in conjunction with the Advanced Technology Environmental and Energy Center (ATEEC) an NSF ATE Center
Technical Assistance

- **2013:**
  - Northern Marianas College
  - Guam Community College
  - Nebraska Indian College

- **2014:**
  - Diné College
  - Fort Berthold Community College
  - College of Menominee Nation
  - Stone Child College

- **2015:**
  - Bay Mills Community College
  - American Samoa Community College
  - Palau Community College
Fellows Institutes

- Guam Community College, Guam
- Fort Berthold College, New Town, ND
- Honolulu Community College, Honolulu, HI
Fellows Institutes
Examples of mini-grants

2013 Institute

Indigenous Fellows Institute 2013
Guam Community College, Guam
June 3-7, 2013

Download the Agenda

Download Lesson Plans:

- Hydroponics, Aquaculture, and Aquaponics
- Testing Ocean Water Quality and Possible Impacts from Human Activity
- Lab Exercise
- Changes in Resources Lab
- Science Application of Finite Mathematics
- Science Application of Developmental Mathematics and Pre-College Mathematics
- Science Application of Trigonometric Functions and its Applications, Sequences, Series, and Probability
- Ocean Fair Booths
- Integrating Water Quality Testing and a More Comprehensive Worldview to Chemistry Classes
- Introducing Students to GPS and GIS
- Community Based Scientific Method Projects
- Stream Ecosystem Lab
- Resource Management: Seasonal Calendars Activity
- S-curves and Snakes Activity

Watch Recorded Webinars:
Connecting Tribal and Pacific Rim Colleges to Improve Indigenous Environmental Technology Education

About the project:
In this National Science Foundation (NSF) - funded Initiative (DUE #1204627), National PETE is assisting Tribal and Pacific Rim Colleges in improving their Environmental Technology programs as a means to provide education to build an informed and up-to-date environmental “green” workforce. The project strives to improve, enhance, or create environmental science programs at the nations’ Tribal and Pacific Island Colleges. To be eligible to apply, your Institution needs to be a Pacific Island or Tribal College.

Project Goals:
National PETE will reach out to the 37 Tribal Colleges and colleges in the Pacific Rim (U.S. Territories). Educators will be provided with technical and pedagogical skills to better instruct indigenous students and prepare them for new and sustainable “green jobs.”

More information:
Thank you!

Kirk J. Laflin
Executive Director
Email: klaflin@maine.rr.com

Sarah Gross
Program Coordinator
Email: sgrosse@maine.rr.com

National PETE
584 Main Street
South Portland, ME 04106
Tel: (207) 771-9020
Website: www.nationalpete.org
Strengthening Indigenous Environmental Technology Education Panelists

1) **Melanie Mesa Blas**, Science Teacher, Simon Sanchez High School, GUAM

2) **Andrew T. Kozich**, Dept. Chair, Environmental Science, Keweenaw Bay Ojibwa Community College, MI

3) **Sharyl Majorski**, Chemistry Professor, Saginaw Chippewa Tribal College, MI