Native IMAGE First Year Report: Goals Achieved - Third Tribal Forum - August 2004 - Sandiego, CA

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- Third Tribal Forum
- August 2004; San Diego, CA
  - Jan Bingen: Little Priest Tribal College
  - Karisa Vlasek & Hank Lehrer: University of Nebraska at Omaha
The Native IMAGE Three-Legged Stool

- Community Outreach
- Curriculum Enhancement
- Workforce Development
The Founding Native IMAGE Team
Major Initiative This Year

- Increase Geoscience awareness in the Winnebago Public Schools and at Little Priest Tribal College
- Present the results of our programs to regional and national audiences
- Enhance the partnership between IMAGE and Winnebago tribe
- Add as much geospatial material into the LPTC STEM curriculum as possible
Geophysical Training at the Sac Fox Reservation in Kansas

- Introduction to:
  - Geophysical Mapping
  - Ground Penetration Radar
  - Magnetic Gradient
  - Ground Conductivity
  - Resistance Survey
  - Soil Compression

- Study of a former tribal cemetery

- Develop a geophysical assessment of that cemetery
The Sac Fox Group
Initial Field Work
Family Geoscience Preparations
Dinner, Lecture, and Table Work
Family Geospatial Science Gymnasium Activities

Native IMAGE & NASA Nebraska
Geospatial
GPS Scavenger Hunt

- Four separate points scattered around the school
- Family teams worked together
Family Geospatial Goals

- By the time a Nebraska Native American Student completes the 8th grade, they will be able to:
  - Accurately plot course on maps and charts
  - Operate a GPS receiver
  - Use geospatial computer software such as ESRI ArcExplorer
  - Relate basic Remote Sensing Concepts to reservation land planning and agricultural use
Geospatial Boot Camp

- April 2004 One-day workshop with 15 attendees
- Representatives of
  - LPTC
  - Winnebago Tribe
  - Local School Districts
- Introductory Training in
  - GPS
  - GIS
  - Remote Sensing
Classroom Lecture
Computer Lab Exercises

- ARCExplorer
- Terraserver
Outdoor GPS Scavenger Hunt
Presented a poster session and attended TAC meeting
AIAA National Convention
Conclusions

- Students at all levels (K-14) are responsive to learning about geospatial subjects
- A solid partnership with key tribal officials is emerging
- The Native IMAGE initiative has earned kudos from:
  - North Central Association of Colleges and Schools
  - NASA Space Grant and EPSCoR officials
What’s in the future for Native IMAGE and NASA Nebraska Geospatial?

- Current negotiations are in progress with Oregon to provide geospatial training to a Native American group
- November date for the 2\textsuperscript{nd} Annual Nebraska Native American Educational Summit
- Convening the 3\textsuperscript{rd} Annual Grant Proposal Writing Workshop in December
- Continuation of successful Family Science project with LPTC (supported by Native IMAGE) as the lead institution
Contact Information

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Questions?

Thank you!

Native IMAGE & NASA Nebraska
Geospatial