

8-2004

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

Hank Lehrer

Embry-Riddle Aeronautical University Professor, retired, lehrerh@erau.edu

Jan Bingen

Little Priest Tribal College

Karisa Vlasek

University of Nebraska at Omaha

Brent D. Bowen

Embry-Riddle Aeronautical University, bowenb6@erau.edu

Follow this and additional works at: <https://commons.erau.edu/ni-s4ea-san-diego>

Scholarly Commons Citation

Lehrer, H., Bingen, J., Vlasek, K., & Bowen, B. D. (2004). Native IMAGE First Year Report: Goals Achieved - Third Tribal Forum - August 2004 - Sandiego, CA. , (). Retrieved from <https://commons.erau.edu/ni-s4ea-san-diego/2>

This Presentation without Video is brought to you for free and open access by the External Presentations at Scholarly Commons. It has been accepted for inclusion in San Diego by an authorized administrator of Scholarly Commons. For more information, please contact commons@erau.edu.

Native IMAGE First Year Report: Goals Achieved

Native IMAGE



- 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



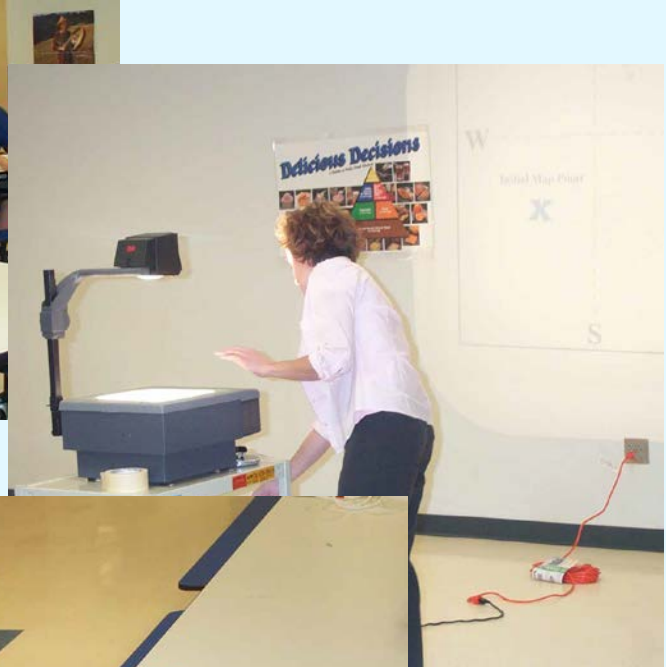


Native IMAGE & NASA Nebraska
Geospatial

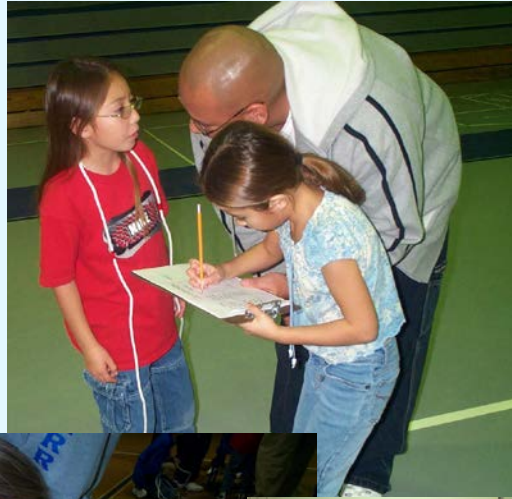
Family Geoscience Preparations



Dinner, Lecture, and Table Work



Family Geospatial Science Gymnasium Activities

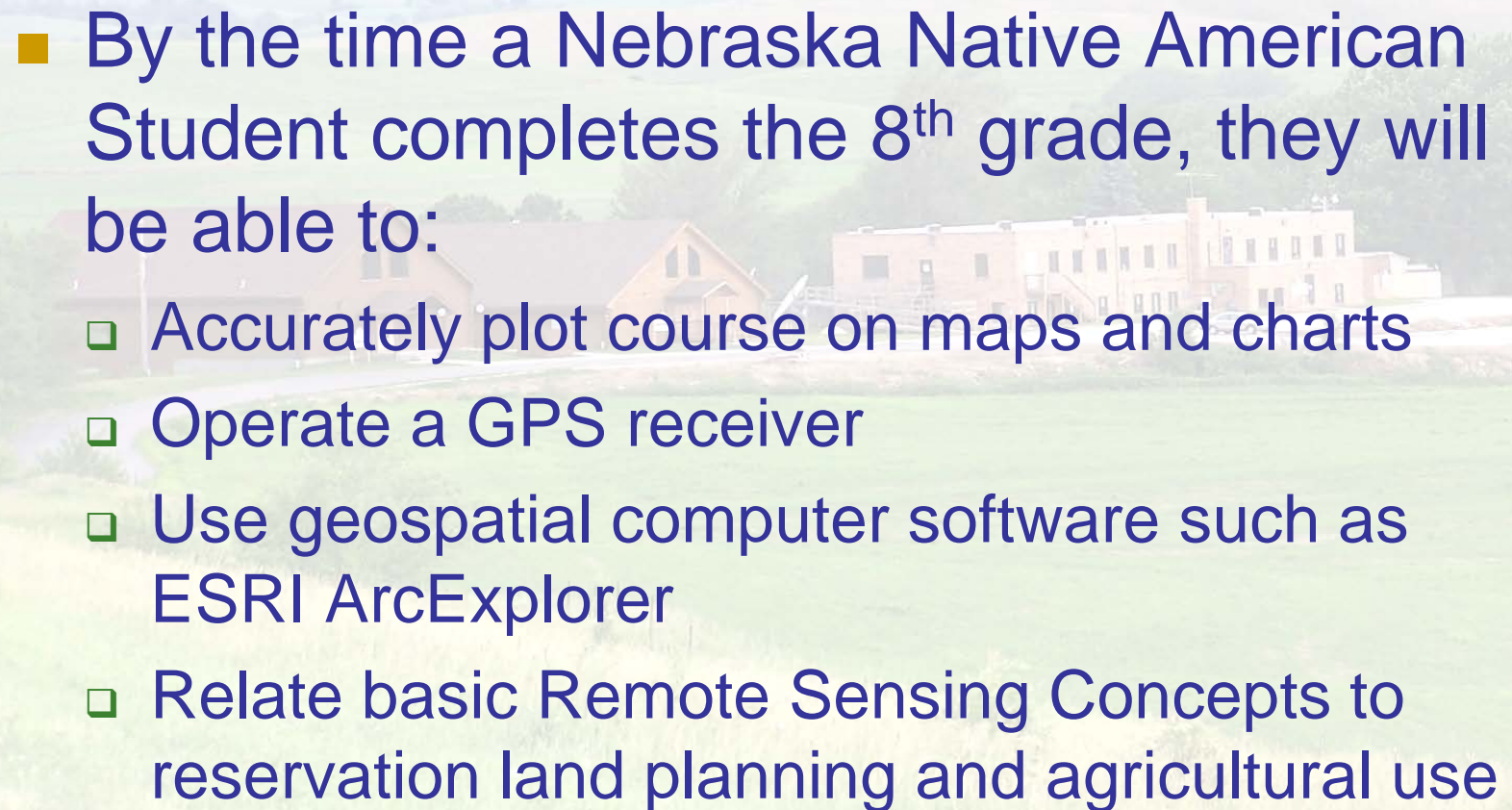


GPS Scavenger Hunt

- 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

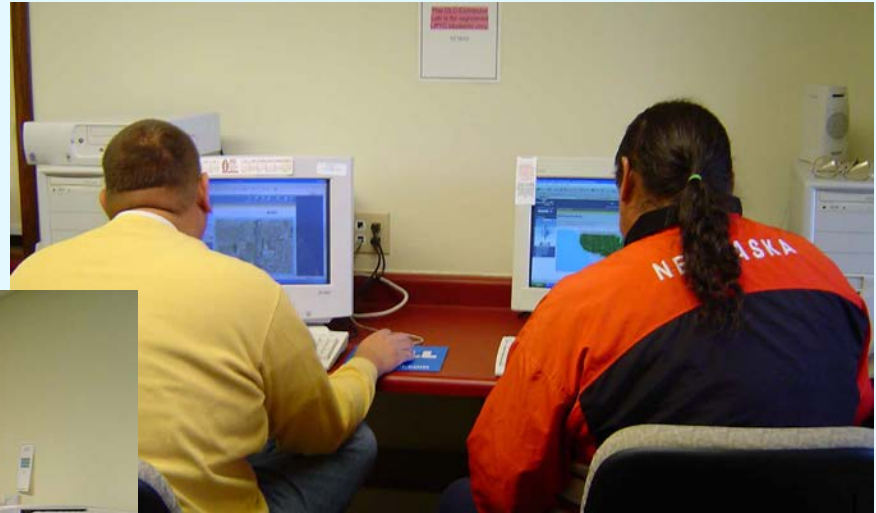
- April 2004 One-day workshop with 15 Attendees
- Representatives of
 - LPTC
 - Winnebago Tribe
 - Local School Districts
- Introductory Training in
 - GPS
 - GIS
 - Remote Sensing

Classroom Lecture



Computer Lab Exercises

- ❑ ARCEXplorer
- ❑ Terraserver



Outdoor GPS Scavenger Hunt



Graduation Picture



Nebraska Academy of Science Nebraska Wesleyan College

- Presented a poster session and attended TAC meeting



AIAA National Convention



Some Fundamental Questions

- Why are the nation's future American citizens going to places in space?
- Can something be done to ensure that everyone has access to education in the future?
- How can we ensure that the nation's future leaders are well-prepared for the challenges ahead?



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 2nd Annual Nebraska Native American Educational Summit
- Convening the 3rd 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

Jan Bingen.

Native IMAGE Director
CIS/Business Department Chair
Little Priest Tribal College
601 E. College Drive
Winnebago, NE 68071
Phone: 402-878-2380
Fax: 402-878-2355
Email: jbingen@lptc.bia.edu

Hank Lehrer, Ph.D.

Professor Retired: Aviation Institute,
Native IMAGE Advisory Board Chairman
University of Nebraska Omaha
29923 Zachary Lane, Rossford, OH 43460
Email: hanklehrer@buckeye-express.com

Karisa K. Vlasek

Geospatial Extension & Research Specialist
NASA Nebraska Space Grant & EPSCoR
Aviation Institute, Univ. of NE at Omaha
Phone: (402) 554-2042
Fax: (402) 554-2695
Email: kvlasek@mail.unomaha.edu

Questions?



Thank you!