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Phase I Geospatial Training Report

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Consultant's Report

To: Dr. Brent Bowen
From: Dr. Henry R. Lehrer
CC: Michaela Schaaf
Date: April 3, 2006
Re: Phase 1 of Spring 2006 Project for Nebraska Space Grant (NESG) and EPSCoR

The activities listed below are those that occurred as part of Phase 1 of the 2006 Project that I was engaged for by Dr. Brent Bowen in early February 2006. Among these activities are project-related travel with dates, evaluation of reports/proposals, and preparation of training sessions that will occur during the following parts of this consultation. The travel-related activities are in chronological order, but other duties are not due the varied time frames during which each occurred; some are on-going and will not be concluded until later phases of this project. All travel will be billed to NESG and EPSCoR under separate cover. If more extensive details or any clarifications are needed, they are available.

Travel to Washington, DC from Rossford, OH: February 7 - 9, 2006

This trip to Washington, DC was to accompany Dr. Bowen to various government-related activities as well as to represent the NESG and EPSCoR at other events and meetings. During this visit, consultation services were for activities with the Space Grant Alliance, NASA, the Aerospace States Association, and the National Science Foundation. Detailed notes for each meeting are available on request. In addition, an informal breakfast meeting with the entire Nebraska Congressional delegation occurred.

Travel to Greenbelt, Maryland from Rossford, OH for NASA GSFC Academy Selection Meeting: March 8 and 9, 2006

The final selection of members for the NASA GSFC Academy takes place every year at that center in early March. The NESG has been represented at this event for the last 5 years. This all-day event is the culmination of a rigorous process that will result in the applicant pool being narrowed from over 120 to approximately 30. Through a series of rounds, attendees offer opinions as to why a specific applicant's credentials are the best fit of the Academy.

Evaluation of NASA EPSCoR 10-year Renewal Proposal; February 2006

The external review of this proposal was to determine the accuracy of any statements, particularly as related to NESG Native American Outreach past and proposed. A complete review of the lengthy proposal was required and corrections in format and continuity were marked as well. The corrected proposal was return NESG for review and final submission.

Evaluation of NASA GSFC Academy Proposals: Early March 2006

Prior to the attendance at the NASA GFSC Academy Selection Committee meeting, it is necessary for evaluators to review numerous packets for the applicants. In the past, these were hard-copy resume books but now the technology is such that all forms and applications, letters of recommendation, and other forms can be reviewed on-line. Each evaluator ranks the applications and then submits a numerical score. Review such detailed material is quite tedious and must occur over several days

Preparation and Planning for Geospatial Boot Camp at Little Priest Tribal College (LPTC) on May 6, 2006

For the past 6 weeks, the teaching team consisting of this consultant, Karisa Vlasek of NESG, and Jan Bingen of LPTC has been planning this year's Geospatial Boot Camp that be held in early May. This year's event will follow the format for the very successful even which occurred in April of 2004. Approximately 20 to 30 teacher and school administrators will be attending this one day event on geospatial teaching techniques. There will be specific instructional units in GPS, GIS, and Remote Sensing plus many hands-on activities. A complete list of the activities as well as the planning that has taken place so far is include on the next several pages.

Planning for Attendance at the NASA Academy Strategic Planning Workshop March 29-31, 2006

It was anticipated that the NESG would participate in this strategic planning meeting the suburban Washington, DC area. In preparation, numerous communications with NASA officials about this meeting occurred and various travel and attendance options were investigated. The three-day event with a retreat format would have look at the future of eh NASA Academy program. The NESG has been engaged in Academy selection for GSFC for several years and it was expected that this expertise would have been a major contribution to the workshop. Unfortunately, it was decided that NESG would not be represented and the travel and participation was cancelled.

Boot Camp Outline

3/14/2006 Phone Conference Call

Date: Saturday May 13, 2006 from 9:00AM to 3:30 PM at LPTC.

Instructors: Jan Bingen, Hank Lehrer, and Karisa Vlasek

Breakfast: Bagels (Jan will pickup), OJ (Hank will get at HyVee), and coffee

Tentative Participants List:

1. Tom Davis: LPTC
2. Michelle Woods: Walthill Schools
3. Dan Ferringer: WPS
4. USDA Extension #1 Walthill
5. USDA Extension #2 Walthill
6. Terri Greenleaf: WPS
7. Laura Tremain: WPS
8. 5th/6th Grade Teacher: Walthill
9. Science Teacher: St. Augustine
10. Administrator: St. Augustine
11. Betty Redleaf Collette: LPTC
12. Shelly Avery: Santee Schools
13. Wanda Henke: Santee Schools
14. Carol Hilker: Pender Principal
15. Pender Teacher
16. Crystal Klein: Omaha Nation
17. Administrator: Omaha Nation
18. Hank Miller: NICC Santee
19. Student Assistant: NICC Santee
20. Cathy Campbell: Winnebago Tribe
21. Winnebago Diabetics Person
22. Emerson Science Teacher
23. Emerson Administrator
24. TBA
25. TBA
26. TBA
27. TBA
28. TBA
29. TBA
30. TBA

“Geospatial Boot Camp”
Sponsored by Native IMAGE (Institute for Managing Applications
in Geospatial Extension) & NASA Nebraska Space Grant



Little Priest Tribal College

May 6, 2006

8:30am-9:00am Continental Breakfast 9:00am – 3:30pm Workshop

Instructors:

Jan Bingen, Director of Native IMAGE

Dr. Hank Lehrer, Past Director Native of IMAGE

Karisa Vlasek, Geospatial Extension & Research Specialist

Agenda

8:30-9:00	Continental Breakfast	
9:00-9:15	Introductions, Overview of Agenda	Karisa, Hank, Jan
9:15-9:45	Overview of Geospatial Technologies	Karisa
9:45-10:15	Latitude and Longitude	Hank
10:15-10:30	Break	
10:30-11:30	GIS TerraServer and ArcExplorer	Hank
11:30-12:00	GPS 101	Jan
12:00-12:45	Working Lunch (catered in)	
12:45-1:30	GPS (outside with units)	Jan, Hank, Karisa
1:30-1:45	Break	
1:45-3:45	Remote Sensing 101	Karisa
3:15-3:30	Wrap Up	Hank, Karisa, Jan