

**MINNESOTA STATE UNIVERSITY, MANKATO**  
**2003-2004 FACULTY IMPROVEMENT GRANT APPLICATION**

The Faculty Improvement Grant is designed to provide funding for faculty members to improve performance in the following areas: (1) Teaching, (2) Scholarly or Creative Activity, (3) Continuing Preparation and Study, (4) Contributions to Student Growth and Development, and (5) Service to the University and Community. Grants are awarded to pursue, but are not limited to, the following activities: workshops, institutes, seminars, symposia and/or other interactive activities, course work, observations, and self-designed learning activities.

Name \_\_\_\_\_ College/Unit CSET/ECET Department ECET

Check One: ☒ Tenured ☐ Probationary ☐ NTT ☐ Fixed-Term % FTE: 1.00  
 Mail Code \_\_\_\_\_ Phone # 7 E-mail Address \_\_\_\_\_

Circle Period for Which Grant Support Is Requested:  
 Deadline for receipt by Dean Director:

FY04.....

September  
12, 2003

for activities to occur on or before June 30, 2004

FY04.....

December 5,  
2003

for activities to occur on or before June 30, 2004 AND  
 for activities to occur between July 1, 2004 and  
 December 31, 2004

FY04 or FY05 \* .....

March 19,  
2004  
 \*contingent  
 upon funding

for activities to occur on or before June 30, 2004  
 AND for activities to occur between July 1, 2004 and  
 June 30, 2005

Purpose and brief description of proposed activity (25 words or less):

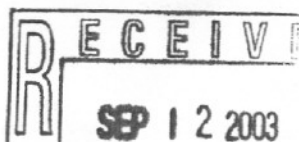
Visit Inca sites in Peru to study technological aspects of  
Inca civilization - including astronomy, architecture, civil  
construction techniques, and fortifications.

Specific Dates Of Proposed Activity:

Dec 29, 2003 through Jan 8, 2004

Purpose of Grant:

- Describe the activity for which you are requesting support (eight [8] pages maximum). Brochures or supporting materials clarifying and explaining your planned activity must be attached. For tuition payments, attach a fee statement or other supporting documentation.
- Provide statements in which you explain how this activity will improve your performance in one or more of the five areas (below) and how it benefits: a) you, b.) the department and/or instructional program, and c.) the University. For self-directed projects, attach a detailed schedule and documentation of your plans.
  - Teaching
  - Scholarly or Creative Activity
  - Continuing Preparation and Study
  - Contributions to Student Growth and Development
  - Service to the University and Community



# Faculty Improvement Grant Proposed Budget

Destination: Peru  
 Departure date: Dec 30 Return date: Jan 8, 2004  
 Number of nights: 9 Number of days: 10

## US dollars only

Tuition (attach fee schedule)	\$
Registration fee (attach brochure) <u>    </u>	\$ <u>1040.00</u>
Entrance fee (attach documentation)	\$

Transportation (\$800 maximum allowed)	
<u>Air</u> , bus, or train price quote	\$ <u>750.00</u>
Airport shuttle/taxi	\$
State car *	\$
No State car available*	\$
Parking	\$
*Use State of Minnesota guidelines to determine maximum allowed	
Total Transportation (\$800 maximum)	\$

Meals (# <u>    </u> x rate <u>    </u> = )	
<u>    </u> Breakfast ( ) x rate* = # <u>    </u> x rate <u>    </u> =	\$
<u>    </u> Lunch ( ) x rate* = - # <u>    </u> x rate <u>    </u> =	\$
<u>    </u> Dinner ( ) x rate* = # <u>    </u> x rate <u>    </u> =	\$
*Use State of Minnesota guidelines to determine maximum allowed	
Total Request for Meals	\$

Lodging (# <u>    </u> x rate <u>    </u> = )	
Nights ( ) x rate =	
Total Lodging	\$

Total Expenses \$ 1,790.40 ✓

Total FIG Request \$ 1,790.40 ✓

\$ 2,500.00 kw  
 Total Eligible Amount  
 (for office use only)

## Signatures:

\_\_\_\_\_  
 Applicant

I have reviewed this application: Department Chair

I have reviewed this application: Dean/Dir./Supv.\*

\* Note: If the applicant is a fixed-term employee, the Dean/Director/Supervisor must attach signed documentation that the individual will be on contract the term following the award period.

9-10-03

Date

9-11-2003

Date

9/11/03

Date

## Purpose of Grant

### 1. The proposed activity:

Currently I instruct a course examining various aspects of technology. The course is entitled "Perspectives on Technology" and typically enrolls 70-80 students. One of the many aspects of technology I cover is the historical development of technology and the phenomena of simultaneous development and redevelopment by various cultures.

When discussing this particular topic I try to draw examples from a wide variety of ancient cultures and achievements. Typically I will cite examples from the HoHokum Indians from the US, the HeHe tribe from Africa, the Sumatrans, and the Aztec and Mayan Indians from South America. In every case I try to include photographs I have taken illustrating various aspects of their technology as well as first hand descriptions of items I have examined.

In my continuing development of this course I find a large number of references to various Inca developments as excellent examples of the spontaneous redevelopment of technology. In particular the Incas appear to have independently discovered the corbel arch, the inverted tree support, the multi-tiered road, the spiraled lift, the towered fortress, the buttressed fortress wall, etc. Many of these innovations are to be found along the so-called "sacred valley" as well as at the Ollantaymbo fortress and in the ancient city of Machu Pichu and on Sun Island.

What I therefore propose to do is to visit these sites, looking for these features. I plan on photographing a variety of related items, recording as many details as are relevant, and returning with a clearer understanding of the parallels (and differences) between this society's achievements and what was done elsewhere. Using this information I then plan on updating my ETEXT *Perspectives On Technology* to include the elements I have found.

### 2. Benefits of this activity:

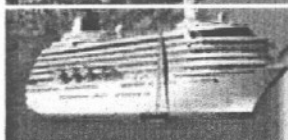
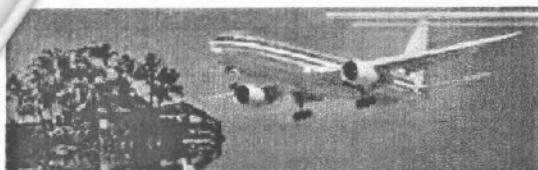
I believe that this activity will benefit me, the department, and the university in a variety of ways. In particular I believe that it will benefit:

- *Teaching:* In constructing the Perspectives course I have found that I am most effective when detailing items which I have personally witnessed. Having a personal connection to the items I describe not only allows me to be more precise, it also provides a basis for a more compelling lecture – generally drawing the students further into the material. This ultimately benefits a) the students who receive a better understanding of the historical, philosophical, etc. basis for technology; b) the department which relies on this class to meet the accreditation requirements to provide a broad perspective on technology; 3) ultimately the university by enhancing our offerings in the area of global studies; and 4) myself

by providing me with a broader basis for developments of my ETEXT and a more general overall understanding of the multicultural aspects of technology.

- *Scholarly:* Since beginning this class I have developed a complete electronic text (currently consisting of 950 M of materials) for the class. This text currently contains, among various other topics, materials covering a variety of different cultures' contributions to technology. It is my intent to further expand this aspect of my ETEXT over the next several years by including material from additional cultures and time periods. This trip would thus provide the basis for inclusion of the Incas in a future edition of the text.
- *Continuing Preparation and Study:* Over the past several years I have taken various opportunities to expand my understanding of the historical basis for technological advances. In this vein I have made trips to various countries and parts of the United States – most recently visiting Tanzania (the HeHe), the arctic (the Skraelings), the Orkneys and Shetlands (Roman and Gauls), etc. As a result I view this trip as another occasion to study another ancient culture and its contributions to the technological society we enjoy.





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## ANDEAN PERU 10 DAYS (10 days and 9 nights)

Daily Departures  
Per Person Prices : *currently \$1040*

**FIRST CLASS**  
\$1358 (Double) & \$1768 (Single)  
Hotels as below

Hotels included in this package  
Sol de Oro Lima  
Picoaga Cusco  
Pueblo Aguas Calientes (Machu Picchu)  
Qelqatani Puno

**TOURIST CLASS**  
\$1068 (Double) & \$1212 (Single)  
Hotels as below

Hotels included in this package  
Santa Cruz Lima  
Los Portales Cusco  
Presidente Aguas Calientes (Machu Picchu)  
Buho Puno

This package can be easily customized to suit your needs

## WOULD YOU LIKE TO BOOK THIS TOUR ? ASK FOR AVAILABILITY

### DAY 1 LIMA PICK UP

Pick up upon arrival and overnight at the Hotel located in Miraflores, Lima

### DAY 2 CUSCO

Transfer to the airport to take flight to Cusco (airfare included) upon arrival reception at airport of Cusco and transfer to the hotel. In the afternoon :Cusco City Tour From 2 PM to 6.30pm .This tour includes the Qoricancha (temple of the sun) and the Cathedral . The tour drives along the Circunvalacion Road up to famous fortress of Sacsahuaman , then to Q'enqo , Puca Pucara and Tambomachay Including Spanish and English speaking guide. Include Tourist ticket valid for the entrance to many museums and ruins as well overnight ) (B)

### DAY 3 SACRED VALLEY TOUR (departure day only on Tuesday Thursday and Sunday)

You will be picked up at 8.45A.M. Full day excursion to the Urubamba Valley visiting: the village of Pisac, a picturesque town of creole and colonial aspect and its Indian market and craftfair. Lunch provided. In the afternoon you'll visit to the fortress of Ollantaytambo, an architectural group that in the days of the Tahuantinsuyo empire was a gigantic agricultural, administrative, social, religious and military complex, then the Chincero market. At the end Return to Cusco and Overnight (B,L)

### DAY 4 MACHUPICCHU TOUR

You will be picked up from your Hotel At 05:45 , transfer to the train station where



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Inti Raymi 2003 Tour

you'll get the train which leaves at 06:00. Travel is in "Autowagon" Class, and you will be accompanied. At 09:10 you arrive at the Aguas Calientes Station, from where you take a 15 minute bus ride to the ruins of Machupicchu themselves. The ruins are on the eastern slope of Machu Picchu in two separate arcas: the agricultural and the urban. Sightseeing through the archaeological site with a professional guide. Lunch at the Sanctuary lodge ( included ). Overnight (B, Lunch )

#### DAY 5 MACHUPICCHU - CUSCO

Morning at leisure in Machupicchu to continue visiting the ruins by your own (please take note that the entrance and bus fee to Machupicchu for this day are not included on the rate). In the afternoon we'll take the autovagon train, the departure is around 3pm to arrive back in Cusco around 7pm (B)

#### DAY 6 PUNO

Transfer to the train or bus station. Ten hour train or bus ride to Puno , across the scenic high Andes landscapes only dotted by small villages and herds of the llamas and vicuñas. Upon arrival transfer to the Hotel and overnight ( B )

#### DAY 7 UROS AND TAQUILE ISLANDS

You will be picked up from your hotel 7,30 AM, after 2 hours motorboat you will arrive at the Uros island, in the Titikaka lake. Fishermen and hunters inhabit the floating islands of the Uros. The residents of the Uros use the cattail, a type of rush, which grows in the lake, to create the conditions that ensure the islands stay afloat. The dense roots that the plants develop support the island. The roofs are waterproof and the houses are extremely humid because of the surrounding water. At present they speak Quechua and Aymara. Then we will visit the Taquile island , including lunch in the co-operative restaurant, there is also a co-operative shop on the plaza that sells exceptional woollen goods which are not cheap but of very fine quality. Taquile Island is famous for its craft production, particularly for its beautiful textiles. The island is narrow only about 1 KM wide , but 6 to 7 KM long, on Taquile there are numerous pre-Inca and Inca ruins and Inca terracing . We will return in Puno in the afternoon, overnight .(B,L)

#### DAY 8 SUN ISLAND FULL DAY

You will be picked up from your hotel at 6,30 am. You will go overland across the border through the colonial town of Juli, and the village of Yunguyo: July and Pomata were very important cultural centres in the 17th century and their magnificent churches give testimony to that old splendour. You will arrive into Copacabana after about 3 hours .Copacana is the most important religious sanctuary of Bolivia, thousands of pilgrims visit every year the virgin of Copacabana also known as Native Madonna , you will visit the main square and the impressive Cathedral (1/2 hour tour). You will arrive into the Sun Island after about 1 hour of a spectacular catamaran cruise including lunch on board , this island has been identified as the birthplace of several revered entities , including the sun itself. A source of magnetic energy , the vertex of the earth and the cradle of the Inca Empire , the Inca couple Manco Kapac and Mama Ocllo appeared here and founded the Sun Empire. During a 2 hours Sun Island Tour you will visit :

- The Inca garden , the island micro climate provides the ideal location for this garden that during Inca times was full of Andean flowers , water and trees.
- The Inca Steps that was built by the Incas in order to reach the Inca Water spring.
- The Inca water spring , a natural water spring with 3 different openings of different tastes, this Inca made water fountain is supposed to be a source of eternal youth.
- The Sun Island Ethno Eco Complex, that contains the largest amount of archaeological items founded in the island and the largest demo variety of Andean flora and fauna available in Bolivia.
- The Sun Island Kallawayas Ancient Cerimony, witchcrafts, natural medicine, art, magic, and millenary traditions are part of the mystic world of the Kallawayas

heritage. The purpose of this mystic ceremony is to purify the souls of the Chinkana holy temple visitors, this Ceremony takes place in a Inca altar at the top of the hill facing the temple and overlooking the lake. You will then proceed back to Copacabana and then to Puno, we will return in Puno at 6,30 PM, overnight (B;L)

#### DAY 9 TRANSFER TO LIMA

Transfer to the airport to take flight to Lima (airfare included) upon arrival reception and transfer to the hotel and overnight (B)

#### DAY 10 TRANSFER OUT

Transfer to the airport for your international flight and end of the services (B)

**INCLUDES:** All hotel and lodge accommodations based on double occupancy. All scheduled transportation. All transfers. All scheduled excursions with English-speaking guide services. All entrance fees. Meals and domestic airfares as specified in the itinerary.

B=Breakfast; L=Lunch; D=Dinner.

**Note :** We can replace above Hotels with other one with the same characteristics in the case that it becomes necessary for operative and other reasonable causes

#### NOT INCLUDED IN THE FEE

International airfares, airport departure taxes or visa fees, excess baggage charges, additional nights during the trip due to flight cancellations, alcoholic beverages or bottled water, snacks, insurance of any kind, laundry, phone calls, radio calls or messages, reconfirmation of flights and items of personal nature

**WOULD YOU LIKE TO BOOK THIS TOUR ? ASK FOR  
AVAILABILITY**

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