

GRANT PROPOSAL COVER PAGE

You can type information directly into the cells below.

	Date	25 Jan 2008
1. Proposal Title Water for Life: Journey to Nicaragua		
2. Name of Person submitting Proposal Edwin Maurer		
3. Phone 408-554-2178	E-Mail emaurer@scu.edu	
FAX 408-554-5474		
4. Type of Grant (Please check one): <input checked="" type="checkbox"/> Bannan Grant <input type="checkbox"/> Dialog and Design Grant		
5. Provide you 4 – 6 letter Department ID or Program ID. (Not a Fund number!) This information must be provided. (e.g. ECON for Economics Department, LACLNC for Law Clinic.)		
C E N G	Steven Chiesa, Chair	4697
SCU Department ID or Program ID	Contact Person	Ext.
* <i>You must have an SCU Affiliation</i>		
6. If your department does not provide administrative assistance to manage grants, we will provide help. Do you need for us to help manage your grant?		
	<input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No
7. Total cost of proposed project	\$	6350.00
8. Amount of money requested from Bannan Center	\$	2,500.00
9. Amount requested from other sources, if any (please list):		
Dean's senior deisgn project support fund (for partial support of the 2 civil engineering students working on a project in Nicaragua)	\$	1,000.00
	\$	
	\$	
10. Please explain briefly what will happen to this project if you do not receive funding from the Bannan Center.		
If the Bannan Center does not provide assistance for this project, the immersion trip will probably happen in any regard. The impacts would be that: 1) a smaller group of students would participate; 2) the group would be probably be limited to civil engineers; 3) the trip would be more limited to those able to afford the full expense.		
Department Chair or Supervisor Approval	Steven Chiesa	1/25/08
	Name (Type or Print)	Signature
		Date

Submit All Proposals to: Bannan Institute, Sobrato Hall, Room 30, Santa Clara University, 500 El Camino Real, Santa Clara, CA 95053-0452. (Electronic **copies** of proposals via email are encouraged. We can email you this Cover Page or you can find it at <http://www.scu.edu/ignatiancenter/bannan/grants/index.cfm>)

**Proposed Budget
Bannan Grant**

Name: Edwin Maurer

Proposal Title: Water for Life: Journey to Nicaragua

I estimate that I will spend the money I am requesting as follows:

<u>PRIME ACCOUNT</u>		<u>AMOUNT</u>
SUPPLY	office, lab, or instruction supplies	
PHONE	telephone charges	
REPROD	copying, printing	
MAIL	postage, mailing, fax charges	
TRAVEL	domestic transport, lodging or meals	6350
SPCEVT	food charges, room charges for a special event	
CONTRS	guest speaker honoraria, research subject fees, professional services	
MISC	publications, subscriptions, membership dues	
SWAGE	student wages	
STFSAL	staff salary	
FACSAL	faculty salary	
BENEXP	student, staff, and faculty benefits	
	TOTAL	<u>6350.00</u>

Proposal to Santa Clara University Bannan Institute for Jesuit Educational Mission

Proposal Title: Water for Life: Journey to Nicaragua

Proposal Applicant: Edwin Maurer, Civil Engineering Department

Narrative of Proposed Activities and Learning Objectives

The overall objective of the proposed project is to provide the participants with the opportunity to learn about sustainability and water development in an international context. The principal motivation for this trip is to place a practical engineering solution, in this case designing a rural water supply system, into the broader context required for assuring a sustainable system. This builds on the mission of the University and the School of Engineering to educate for service to society and promoting justice, for promoting a vocation of service to the most vulnerable, and the campus-wide effort to infuse sustainability throughout the curriculum. While this trip has its roots in engineering, the participants will almost certainly include non-engineers, to broaden the conversation and emphasize the multidisciplinary approach required for sustainable development.

In Nicaragua, we will be based in the community of Rio Blanco, in the Department of Matagalpa. We will be hosted by the staff of a non-profit group, *Agua para la Vida*, who will lead us to various communities where we will meet communities benefiting from installed water systems and others where systems are planned or being constructed. We will see how AplV approaches a water development project along with the community, and how committees are created by the community to ensure local responsibility for the projects. We will spend at least one night in one of the communities, hosted by families involved in a project. Participation in the construction of a project may be possible, depending on the current project schedules when we arrive. We will see many aspects beyond the water supply itself, such as watershed management, health monitoring, and sanitation, that are required to achieve a sustainable benefit to the communities. In Rio Blanco, we will also visit the technical school established by AplV, where local people are trained to design, build, and maintain these systems.

The learning objectives for the participants in this trip are:

- 1) To investigate the role of justice in appropriate technology and sustainable development of water resources for the poor in rural Nicaragua
- 2) To understand the relationship between human water supply and the environment, such as watershed management, health monitoring and education, popular religiosity and community organization.
- 3) To help students explore the meaning of vocation and spirituality through community-based learning among the very poor.

To ensure these objectives are met, all participants will meet several times as a group with staff from the Kolvenbach Solidarity Program of the Ignatian Center for Jesuit Education before the trip and at least twice after returning. This will allow participants to be better prepared for their experience, to understand the objectives of the trip, and to process what they have learned. The goal is to promote a mature understanding of sustainable international development, and how they can play a part in this essential, compassionate service.

During this first, pilot year, we will work with Br. Keith Douglass Warner OFM of the Environmental Studies Institute to create orientation and de-briefing materials addressing the vocational discernment and spirituality issues raised by this trip. He will develop and present materials that will address the role of science, technology and engineering in sustainable development and addressing the needs of the rural poor with an eye to address the needs of engineering students. He will help the students interpret the role of liberation theology, resource degradation, and solidarity with the poor, and the greening of faith in their experience. He will work with Ed Maurer to pilot, document, and improve orientation and de-briefing materials for future engineering-oriented immersion trips with an explicit emphasis on faith and vocation issues.