



<http://www.csuci.edu/ira/index.htm>

**Application**  
**Instructionally Related Activities Funds Request**  
**2012-2013 Academic Year**  
**DEADLINE: Fall and Academic Year 3/31/12**  
**Spring 2013 deadline is 10/31/12**

Applications must first be sent to the appropriate program chair. Chairs will then recommend and route them to the Dean's Office for review and authorization. The Dean's Office will then forward them to the IRA Committee for consideration.

**Activity Title: Field Mapping Ventura County Estuaries with the CSUMB Kelp Fly**

Project Sponsor/Staff (Name/Phone): Sean Anderson (staff = Mary Devins @ x 3253)

Activity/Event Date(s): September 2012

Date Funding Needed By: July 2012

**Please check if any of the following apply to your IRA:**

- Equipment Purchase
- Event
- IT Requirements
- International Travel
- Space/OPC Requirements
- Infrastructure/Remodel
- Other \_Guest Lecture \_\_\_\_\_
- Field Trip
- Participant data collection for public dissemination, i.e. interviews/surveys that result is a journal/poster session/newsletter
- Risk Management Consultation
- Late Submission

Previously Funded:  YES  NO Yes, Request # \_\_\_\_\_

Does your proposal require IRB (Institutional Review Board) approval:  Yes  No

Assessment submitted for previously Funded Activity:  YES  NO

Academic Program or Center Name and Budget Code: ESRM 765-00035

Date of Submission: 3/31/12

Amount Requested: \$1,500  
(Should match item 2. E. on page 4)

Estimated Number of Students Participating: 15-26 (possibly more)

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**Conditions and Considerations**

**Equipment Purchase**-If requesting large equipment, Project Sponsor must show proof of correspondence with OPC Administration. In addition, all other purchases must follow Procurement Guidelines.

**Events**-For a large event, consultation with the events coordinator is recommended.

**Participant Data Collection for Public Dissemination**-If Project Sponsor proposes to conduct research with human participants then it may be subject to IRB (Institutional Review Board for the Protection of Human Subjects) review. It is the Project Sponsor's responsibility to inquire with the IRB **prior** to IRA application submission to determine if the project is exempt from IRB review so that funding is not delayed. Please indicate on the cover page if your project is exempt from IRB review.

**Field Trip**-If approved, Identified Risks of Participation and Release Agreement must be submitted for each student to the Program Office (Public Folders-HR Forms).

**IT Requirements**-Requires proof of correspondence and approval from IT Administration

**International Travel**-Requires International Travel application be submitted to Center for International Affairs.

**Risk Management Consultation**-Requires proof of correspondence with Risk Management.

**Space/OPC Requirements, Infrastructure/Remodel**-Requires proof of correspondence with OPC Administration .

**Late Submission** - Requires explanation for emergency funding.

**Fiscal Management:** Project Sponsor's program will be responsible for all costs incurred over and above what is funded through the IRA award and will be responsible for seeing that any revenue that is intended to offset the amount of the IRA award is transferred accordingly.

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**Requirements and Signatures**

Please provide the following in your application:

1. **Brief Activity Description.** Describe the activity and its relationship to the educational objectives of the students' program or major.
2. **Relation to IRA to Course Offerings.** All IRAs must be integrally related to the formal instructional offerings of the University and must be associated with scheduled credit courses. Please list all classes that relate to the program proposed.
3. **Activity Assessment.** Describe the assessment process and measures that the program will use to determine if it has attained its educational goals. **Please note a report will be due at the end of the semester.**
4. **Activity Budget.** Please enclose a complete detailed budget of the entire Activity **bold** specific items of requested IRA funding. (Page 4)
5. **Sources of Activity Support.** Please list the other sources of funding, and additional support for the activity.
7. **Acknowledgment.** Project Sponsor and Program Chair acknowledge that they have reviewed and accepted the Conditions and Considerations detailed on page 2

Sean Anderson

3/31/12

Date

Don Rodriguez

4/2/12

Date

Karen Carey

4/3/12

Date



### Brief Program Description

I am proposing to bring down Dr. Rikk Kvitek, professor at CSU Monterey Bay and members of his Seafloor Mapping Lab for a 3-day visit at the very beginning of the Fall semester. He will lead a major field lab activity in Mugu Lagoon and surrounding coastal lagoons (estimated to take approximately three days) and to give at least one guest lecture in my ESRM 462: Coastal and Marine Management Class.

We will be using a half-million dollar one of a kind shallow water benthic floor mapper known as the kelp fly. This modified wave runner has been customized with a variety of unique technologies and parts to allow this craft to drive into water as shallow as 0.5m deep. It maps the bottom of the lagoons to an accuracy of  $\pm 1$ cm in x, y, and z directions. See image below:



In addition will we be using a \$300,000 high resolution terrestrial mapper to characterize the intertidal zones of the lagoon. All of this equipment resides at CSU Monterey Bay. Rikk and I participated in a unique collaborative training session this past January at CSU Monterey Bay and began making plans to bring that equipment to Ventura County. We are currently pursuing a CSU COAST equipment sharing grant to operate the equipment for 3 days and to cover the insurance, etc. cost of its operation. That equipment sharing grant will not provide for the time to bolster our lecture/lab activities nor will it pay for the hotels of Rikk and his operators. I request IRA funding to allow this unique collaboration to bolster our teaching as well as research endeavors.

Relation to IRA Program to Course Offerings.

This once in a decade (or longer) opportunity will prove a truly unique experience for this coming fall semester's students. While they will not be able to pilot the Kelp Fly, they will operate the shore-based laser mapper and process the GIS data. No other university in the U.S. (including CSU Monterey Bay) is exposing undergraduates to this cutting edge technology.

Program Assessment

Students will be evaluated at the end of the semester as well as creating a lab pieces on their work. The results may also be presented at conferences this fall (see related proposal).

Sources of Program Support

No support exists for accommodations for Rikk and his technicians, nor is there funding for travel down from Monterey with the Vans and Trailers. We are pursuing a \$10,000 internal CSU grant from the Chancellor's office (via COAST) to cover the operating costs while the equipment is here.