



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

Application
Instructionally Related Activities Funds Request
2013-2014 Academic Year

DEADLINES: Application Submitted to AVP:
Fall and Academic Year 2013-14: 03/01/13
Spring 2014 deadline: 10/01/13

Submittal Process: Applications must be first be signed by your program chair and then submitted to the appropriate AVP for approval. AVP's will next forward application to the IRA Coordinator for review. If there are questions or concerns, you may be asked for revisions or additional information. The IRA Coordinator will then forward applications to the IRA Committee for consideration.

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.

Duplicate requests- if Sponsor is submitting multiple proposals for recurring events involving speakers, musicians, etc., please combine your requests into one proposal.

Activity Title:

Biology Symposium: Frontiers in Neuroscience

Project Sponsor/Staff (Name/Phone):

Charles Sackerson / Biology / x8806

Chunnian Xhao / Biology / x3532

Activity/Event Date(s):

April 18 2014

Date Funding Needed By:

Jan 31, 2014

***Please Note that for Fall Requests the earliest that you will be notified of funding availability will be early June 2013 and for Spring Requests early January 2014.*

Previously Funded by IRA? YES **NO** If Yes, what Semester/Year?
 Proposal(s) # _____ (if known)

Report submitted for previously Funded Activity?: YES NO

***Please attach copy of previous IRA Report**

Academic Program or Center Name: Biology

Estimated total Course Fee revenue: \$0

Amount Requested from IRA:
\$3830.00

Estimated Number of Students Participating: **120**

Conditions and Considerations Checklist

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

Artist/Performer/Speaker Fees & Honoraria- On the Activity Budget, please indicate whether the vendor's price was set by you / CI representative, or is a fee that was set by the vendor themselves.

Large Event- For a large event, consultation with the campus Event Coordinator's office at (805)437-8548 is required.

Equipment Purchase- If requesting large equipment purchase -over \$200, or will be a fixture installed on campus- Project Sponsor must show proof of correspondence with OPC Administration. In addition, all other purchases must follow Procurement Guidelines.

Field Trip- Sponsor must comply with all policies found at <http://www.csuci.edu/hr/AcademicFieldTripGuidelinesandForms.htm>. If approved, Identified Risks of Participation and Release Agreement must be submitted for each student to the Program Office (Public Folders-HR Forms).

Involves Human Subject Data Collection for Public Dissemination -Requires IRB Approval. If Project Sponsor proposes to conduct research with human participants, the proposal may be subject to Institutional Review Board for the Protection of Human Subjects (IRB) review. All research that involves any type of interaction with human subjects – from simple surveys to complex biomedical procedures – must be reviewed and approved by the IRB *prior* to starting the research. Data for "Public Dissemination" indicates interviews/surveys that result in a journal/poster session/newsletter, etc.

Exempt from IRB Approval –If your project is exempt from IRB review, include copies of correspondence with IRB Board. 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.

IT Requirements- If your activity has IT requirements, your application requires proof of correspondence and approval from IT Administration.

International Travel- Requires International Travel application be submitted to Center for International Affairs. Include copy of CIA budget and course syllabus in your IRA application.

Risk Management Consultation-Events that involve or engage students directly with a performer or artist (i.e. in a workshop or other than as a passive audience member) will require consultation with Risk Management. 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.

Other -

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Instructions and Requirements – Written Portion

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.

The Biology Department has traditionally hosted one or two symposia in each academic year. The goal is to highlight an area of Biological research of relevance to the students' education, and, importantly, to the local community. These symposia are open to the public, and are intended to be accessible to a non-specialist audience, while at the same time supporting the educational curriculum of the Biology Program and other science programs at CI.

The proposed topic for a symposium this spring is "Frontiers in Neuroscience". The topic is particularly timely, in light of President Obama's announcement in April of a BRAIN Initiative (Brain Research through Advancing Innovative Neurotechnologies). Exposure of our students to the findings and technologies of neuroscience is crucial to their development as well-rounded citizens of the future.

The symposium will bring together 5 speakers to discuss new advances in neuroscience: the genetic basis of neurological disorders such as autism, ADHD, and schizophrenia; use of stem cell and other strategies for the treatment and repair of brain damage in such cases as Alzheimer's, stroke, and traumatic brain injury; new insights into brain function from advances in neuroimaging during tasks such as learning, memory, and remembering; advances in our understanding of complex behaviors such as eating and sleep and related disorders; and other topics that may arise as the planning progresses. This symposium will strongly support the BA and BS programs in Biology, the Masters programs in biotechnology, bioinformatics, and business administration, and programs in the Psychology Department.

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.
 - a. Please list all classes that directly relate to the proposed activity.

The Biology Symposia have traditionally been used as required or extra credit components of the coursework in several Biology courses. Among those where this would be appropriate are: BIOL 100, 170, 201, 210, 211, 212, 220, 300, 302, 303, 304, 310, 315, 326, 331, 333, 345, 400, 401, 423, 424, 425, 427, 431, 434, 464.

- b. For each class listed in #2a, describe in detail how exactly the IRA activity will be integrated with the class's activities, how often/ on what expected date(s), and to what extent.

Courses supported by this activity are:

- **Introductory Biology (100, 170, 201):** the structure and functioning of the nervous system is a core topic in these introductory Biology courses, and the symposium will enhance student understanding and appreciation of this topic.
- **Quantitative methods (203):** exposure to the findings of real research scientists is central to an appreciation of the goals of this course.
- **Anatomy and Physiology (210, 211):** study of the nervous system is integral to these courses.
- **Neurobiology and Cognitive Science, Cellular and molecular neurobiology (212, 423):** Biol 212, co-listed as Psy 212, focuses on the brain and behavior; Biol 423 focuses on the molecular biology of neural function; students who have taken, or will take these courses, will benefit greatly from the exposure to original research in the field.
- **Stem cell technology, applications, and social impact (220):** the application of stem cells to nerve damage and regeneration will be one of the topics covered in the symposium.
- **Cell biology, Genetics, Evolutionary Biology, Comparative animal physiology, and Vertebrate biology (300, 302, 303, 304, 310):** these intermediate-level core courses will be enriched by the topics in the symposium.
- **Biophysics (315):** biophysical processes such as intracellular transport and membrane dynamics are integral to neural function.
- **Scientific and professional ethics, Biotechnology in the 21st century, Emerging public health issues, Science and public policy (326, 331, 333, 345):** these general education courses present advanced scientific concepts to a general audience, and the symposium will seek to do the same, enriching the experiences of students who have or will take these courses.
- **Molecular biology, Biotechnology and recombinant DNA techniques (400, 401):** the concepts and technologies learned in these courses will lie at the heart of the concepts and technologies used currently and in the future to study brain function and impact positively treatments and repair of brain damage.
- **Human physiology, Human genetics, Developmental biology (424, 425, 427):** these advanced courses in biology lay the groundwork that students will need to move on to future careers in neuroscience, and the symposium will help them direct their studies toward their personalized goals.
- **Bioinformatics (431):** computer modeling, systems approaches, and bioinformatics will be touched upon by the majority of the anticipated speakers.
- **Introduction to biomedical imaging, Medical instrumentation (434, 464):** imaging techniques are central to the advances in neurobiology that will be presented at the symposium.

- **There are also numerous courses in the Biology Department Masters Program and offered by the Psychology Department that will benefit from this symposium.**
3. **Learning Outcomes.** List all expected learning outcomes, as connected specifically with each course listed in #2.

Specific program learning outcomes supported are:

- **Explain the basic structures and fundamental processes of life at molecular, cellular and organismal levels**
- **Effectively apply current technology and scientific methodologies for problem solving**
- **Collect, organize, analyze, interpret and present quantitative and qualitative data and incorporate them into the broader context of biological knowledge**
- **Find, select and evaluate various types of scientific information including primary research articles, mass media sources and world-wide web information; and**
- **Communicate effectively in written and oral forms**

4. **Activity Assessment.** Describe the assessment process and measures that the program will use to determine if it has attained its educational goals. **Please note that a report will be due 30 days after your activity.**

Assessment will employ a standard student evaluation procedure, as has been used in past Biology symposia. Attendance will also be used as a measure of success for this activity.

5. **Activity Budget.** Please enclose a complete detailed budget of the entire activity. **Bold** specific items that you are requesting IRA to fund (Page 6).
6. **International Trips.** If your event is an international trip submitted through the Center for International Affairs, you must include a copy of the program budget as submitted to CIA (to ensure congruency between the two budgets), as well as a copy of the course syllabus.
7. **Sources of Activity Support.** Please list the other sources of funding (including course fees), and exact expected amounts of additional support for the activity.

IRA funding and Biology Program funds will be used to support this activity.

8. **Audience/ Marketing/Promotions.** Who is your intended target audience? How will your event be advertised to students?

The target audience for these Biology symposia is the undergraduate students in the STEM disciplines. The students will be reached through social media, flyers, and other advertising. In addition, faculty often requires attendance and a report form their students, which further promotes knowledge of the event and participation by the students.

9. **Sustainability.** If appropriate, indicate how the content or delivery of the project promotes sustainability at CI.
10. **Images.** For previously funded IRA activities, include copies of images from past IRA activity or activities, demonstrating student participation and levels of students served.
11. **Acknowledgment.** Project Sponsor and Program Chair acknowledge they have reviewed and accepted the Conditions and Considerations. IRA Proposal # 601

Signatures and Dates (REQUIRED)

Charles Sackerson	<u>Chris</u>	<u>9/30/13</u>	Date
Amy Denton		<u>9/30/2013</u>	Date
KAREN CAREY	<u>KY</u>	<u>10/1/13</u>	Date

REQUIRED: Attach a copy of the completed IRA Excel Budget (Either the "Regular Budget" or the "Travel Budget" page (see form for further instructions)

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IRA Activity Budget



Activity Title: Biology Symposium: Frontiers in Neuroscience
 Name of Sponsor: Charles Sackerson / Biology

Account	Operating Expenses	Amount	PLEASE EXPLAIN: Comments/Notes
A. Artist/ Performer/Speaker			
613802	Honoraria (Price set by CI)	\$2,500.00	5 speakers at \$500 per speaker
613802	Honoraria (Price set by CI)		
613801	Professional Svcs/ Speaker Fees (Price set by vendor)		
601801	Special Consultants (existing CI employees)		
613801	Other Consultants /Other Professional Services		
613001	Independent Contractor(s)		
	Other:	\$500.00	In-state travel
	Artist/Performer/Speaker/Consultant TOTALS	\$3,000.00	
B. Supplies & Services- Other			
660002	Printing	\$600.00	
660017	Advertising (such as in a magazine or publication)		
660831	Copier Chargeback		
660090	Event Signage (wayfinding on day of event)		
660835	Event or Parking-related Staffing		
660825	Rentals or Leases		
660833	Promotional Items (with logo)		
660834	Awards		
660890	Registration- Conferences & Meetings		
660003	Supplies & Services- Other		
660003	Supplies & Services- Other		
660003	Parking (please describe)	\$30.00	day parking for 6 speakers
	Other (specify)		
	Other (specify)		
	Supplies & Services- Other TOTALS	\$630.00	
TOTAL EXPENSES		\$3,630.00	

	C. Revenue	Amount	Comments/Notes
	A. Course Fees		
	B. Ticket Sales		
	C. Additional Sources of Funding		
TOTAL REVENUE		\$0.00	
D. TOTAL REQUESTED FROM IRA		\$3,630.00	

E. Other Expenses			
660832	OPC Chargebacks & Facility Use Fees	\$200.00	
	Other (not requested from IRA)		
	Other (not requested from IRA)		
TOTAL OF OTHER EXPENSES		\$200.00	