



<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 2012 deadline is 10/31/12

Applications must first be sent to the appropriate program chair. Chairs will the 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: New West Symphony Orchestra – Physics of Music

Project Sponsor/Staff (Name/Phone): Jerry Clifford, 437-2798

Activity/Event Date(s): Spring semesters 2013

Date Funding Needed By: March 2013.

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

- Equipment Purchase
- Event
- IT Requirements
- International Travel
- Space/OPC Requirements
- Infrastructure/Remodel
- 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 (Passed Deadlines)
- Other: partial payment for outside event

Previously Funded: x YES NO Yes, Request # ⁴²³ ~~xxx~~ for 2011-2012

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

Assessment submitted for previously Funded Activity: x YES NO

Academic Program or Center Name and Budget Code: Applied Physics

Date of Submission: 7/20/12

Amount Requested: \$240
(Should match item 2. E. on page 4)

Estimated Number of Students Participating: 48

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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-Attach copy of Events and Facilities Use Request Form (Public Folders-Events & Facilities folder) Consider time frame for set-up and take down.

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.

The Physics of Music course is designed to give a useful and fun understanding of music and sound for general education, physics and performing arts students interested in music and speech. The format includes lectures, demonstrations, and hands-on activities. After covering the basic foundations of sounds and music, the students investigate each musical instrument group, including percussion, plucked strings, bowed strings, blown pipes, blown reed instruments and the human voice.

To enhance the course, we want to expose students to a professional orchestra performance. Most of our students have never seen a professional orchestra concert. Last academic year our students attended the New West Symphony concert in Oxnard on November 11, 2011. Students are more familiar with rock concerts that incorporate different musical instruments. The New West Symphony is local and very high caliber. They play often-recognizable classical pieces. The students will hear in concert the instruments they have studied in class. Hopefully, this will introduce students to a lifetime of music appreciation beyond the rock concerts. We are also fostering a wonderful relationship between NWS and CSUCI.

As the University's Performing Arts Music program grows, we hope CSUCI will have orchestra performances that we can attend on campus as well as professional concerts.

This is not a field trip. The choice of a concert and venue is up to the students and they may go any time prior to the report due date. We offer, however, a great deal on group-discount tickets at The New West Symphony. NWS offers \$25 group tickets, which is much less than the normal single-seat ticket prices of \$78.

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.

This proposal would support the existing courses PHYS 335/PAMU 335, which is a 3 unit course, taught in the Spring semesters. The course is popular and has an enrollment capped at 24 students, limited by the lab.

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.**

After the concert, the students will write a paper for course credit and answer a brief questionnaire about the visit. The reports will be evaluated to determine the extent of understanding students showed for the physics of the instruments and the sounds observed. Student interest in this activity will also be assessed. The information will be collected into a report at the end of each semester.

4. **Activity Budget.** Please enclose a complete detailed budget of the entire Activity **bold** specific items of requested IRA funding. (Page 4)

Last year the New West Symphony quoted us a special student rate of \$10 per person for the Oxnard venue, where many of our students live. This is a great price compared to the lowest standard price for single seats of \$78. We plan on an equivalent offer next year. With two courses of 24-student, I expect a maximum of 24 students to participate in the group activity. I would like IRA to pay half the ticket cost (\$5) while the students pay the other half (\$5). Having the students pay part of the cost improves commitment and assures attendance.

5. **Sources of Activity Support.** Please list the other sources of funding, and additional support for the activity.

Students will pay \$5 per ticket. Also, students will pay their own transportation and parking. The total student cost will be \$120 to \$150. The instructor will accompany the students but pay his own way.

7. **Acknowledgment.** Project Sponsor and Program Chair acknowledge that they have reviewed and accepted the Conditions and Considerations detailed on page 2.

Signatures and Dates

JEROME CLIFFORD

7/20/2012
Date

IVONA GRZEGORCZYK

7/20/12
Date

KAREN CAREY

7/24/12
Date

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ACTIVITY BUDGET FOR 2012-2013

1. Operating Expense Budget

A. Supplies	none
B. Vendor Printing	none
C. In-State Travel	none
D. Out-of-State Travel	none
E. Equipment Rental	none
F. Equipment Purchase	none
G. Contracts/Independent Contractors	none
H. Honorarium	none
I. OPC Chargeback	none
J. Copier Chargeback	none
K. Other (Please Specify)	\$265
\$10 per ticket for 24 students.	
\$25 for instructor ticket	
TOTAL Expenses	\$265

2. Revenue

A. Course Fees	_____
B. Ticket Sales	_____
C. Out of Pocket Student Fees (exclusive of course fees)	\$120
<p>Each student will pay \$5 of the ticket price. Also students will pay transportation and parking. This would cost up to \$150</p>	
D. Additional Sources of funding (Please specify And indicate source)	\$25 instructor will pay for his ticket
Total Revenue	\$265
E. Total Requested from IRA	\$120

Instructional Related Activities
Report Form

SPONSOR	DEPARTMENT
Jerry Clifford	Physics

ACTIVITY TITLE	DATE (S) OF ACTIVITY
New West Symphony concert for Physics of Music class	November 11, 2011

E-mail to the Dean's Office
30 days after activity



The Physics of Music course is designed to give a useful and fun understanding of music and sound for general education, physics and performing arts students interested in music and speech. The format includes lectures, demonstrations, and hands-on activities. After covering the basic foundations of sounds and music, the students investigate each musical instrument group, including percussion, plucked strings, bowed strings, air pipes, reed instruments, horns and the human voice. To enhance the course, we wanted to expose students to a professional orchestra's live performance.

Description of Activity:

Our Physics of Music students attended New West Symphony concerts in Oxnard on November 11, 2011. Most of our students had never seen a professional orchestra performing a live concert. The New West Symphony is local and very high caliber. They play recognizable classical pieces as well as music by new composers. The

students heard in concert the instruments they have studied in class. Students are more familiar with rock concerts that incorporate different musical instruments. Hopefully, this was a memorable introduction for students to a lifetime of music appreciation beyond the rock concerts.

The concert was particularly memorable because the guest conductor, Sarah Ioannides, was the first female to lead the New West Symphony. Ioannides, who is from Australia, is music director of the Spartanburg Philharmonic in South Carolina. Being from Australia, she chose a new work by Australian composer Matthew Hindson, Violin Concerto No. 1, "Australian Postcards." This was the West Coast premiere of the exuberant piece with three movements as musical postcards of Australia, a symphonic triptych of his homeland. The young Canadian violin soloist, Lara St. John, was amazing. The LA Times wrote "Lara St. John happens to be a volcanic violinist with a huge, fabulous tone that pours out of her like molten lava. She has technique to burn and plays at a constant high heat. She is uninhibited, sometimes strikingly so.... She is the closest equivalent to a Janis Joplin on the current classical concert scene." The front row seating for the students provided an exceptional view as she played. Some students commented that they could see broken bow hairs fly as she attacked her instrument and played at a frenetic pace, as seen in the photo below.



The concert balanced the modern concerto with two classical pieces, Debussy's "La Mer" and Stravinsky's "Suite for the Firebird". Most of the students found La Mer to be too slow for their rock-acclimated ears, though one student said it was her favorite. The Stravinsky piece was exciting and provided opportunities for many instruments to stand out above the orchestra, particularly the woodwinds and horns. Most of the students moved for the second half of the concert from the front row to the rear of the

auditorium where they could see the entire orchestra better and identify the individual instruments visually as well as acoustically.

Fourteen students attended the concert, many bringing student friends to share the experience.

This activity was not a field trip because the choice of a concert and venue was up to the students, and they could go any time prior to the report due date. We offered, however, a great deal on group-discount tickets, thanks to the IRA support.

Activity Related to Course:

This project directly supports the Physics of Music course, by expanding the class presentation on instruments to an exciting live performance. The many instruments, which they studied individually, are integrated into one unit. Many of the instruments, like the violin, trumpet, flute, clarinet, oboe and timpani, had been covered in class but many other instruments were only mentioned, like the cello, double bass, bassoon, piccolo, French horn, trombone, cymbal, and many percussion instruments. The students also saw how the conductor led the orchestra through her movements and directions to play in a coordinated manner. Several students commented that seeing the violins play in unison, including their bowing, was amazing.

Learned from Activity:

After the concert, the students wrote a paper for course credit about the concert. The reports described the specific instruments and the combined sounds observed and evaluated the student interest. The paper addressed four points:

- What musical instruments were particularly interesting and why?
- What new musical instruments did they notice?
- Describe their impressions of the combined sounds of the symphony.
- What did they like about a live symphony performance? What did they learn from it?

Most students thought the symphony performance was outstanding. The students were amazed by the fullness of the sounds and the complexity of the playing. Most students were interested in the role of the conductor at the performance. The students all agreed that the concert was an excellent way to culminate the class.

Seeing a professional orchestra was a wonderful experience for our students. The New West Symphony has been trying for years to establish a relationship with the University and they were very excited to that our Physics of Music class included a symphonic performance in our curriculum.

Accounting:

Sandy Galin of the NWS office offered \$10 group tickets, which is much less than the normal single-seat ticket prices of \$78. The students originally had to pay \$10 per ticket, but after the symphony I reimbursed them the full cost. I found that student do not show up if they don't have any "skin in the game". I reimbursed the full cost because we did not have the full number of 24 students per semester that we had planned for. Students did pay for their guests. Students also paid for their own transportation and parking.

Eleven students attended the concert:

Allen	Justin
Fried	Brandon
Glassett	Jillian
Graham	Chad
Groh	Britta
Hager	Joshua
Kirk	Ashley
Romero	Carlo
Seeley	Robert
Stevensor	Ryan
Wermter	Janie

The total cost for the eleven student tickets was \$110. Three students brought student friends. The receipt below includes the cost of the eleven course students, the three guests and two tickets for me and my spouse. We had requested \$240 of IRA funding for the New West Symphony for two semesters. The actual cost was \$110, which was paid on my Visa credit card. The Physics of Music course was not offered in the Spring 2012 semester as planned so there was no cost for that semester.

Conclusion:

The New West Symphony remains a valuable part for the Physics of Music course and I hope IRA support will continue to give our CSU Channel Islands the opportunity to attend concerts as part of future Physics of Music courses.

