

## Instructionally Related Activities Funds Request Spring 2017

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## IRA Funds Request for Biology Medical Career Guest Speaker Series

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## Instructionally Related Activities Funds Request Summary

<b>Project Sponsor</b>	Amy Denton
<b>Activity Title</b>	Biology Medical Career Guest Speaker Series
<b>Activity/Event Date</b>	February or April 2017
<b>Date Funding Needed By</b>	January 2017
<b>Previously Funded?</b>	Yes
<b>Semester/Year</b>	Spring 2009, Spring 2012, Spring 2014
<b>Proposal #</b>	—
<b>Report submitted for previously Funded Activity?</b>	Yes
<b>Report submitted for previously Funded Activity</b>	<a href="#">Denton_Frisch_IRA_Report2009.pdf</a>
<b>Additional Report #1</b>	<a href="#">Denton_Frisch_IRA_Report_2012.pdf</a>
<b>Additional Report #2</b>	—
<b>Additional Report #3</b>	—
<b>Additional Proposers</b>	—
<b>Academic Program(s) / Center Name(s)</b>	Biology Program, Biology Club, any student interested in a medical career
<b>Estimated total Course Fee revenue</b>	n/a
<b>Amount Requested from IRA</b>	\$2000
<b>Estimated Number of Students Participating</b>	50-100
<b>Conditions and Considerations</b>	Artist/Performer/Speaker Fees & Honoraria, Large Event, IT Requirements, Space/Facilities Services Requirements
<b>Brief Activity Description</b>	<p>A large percentage of biology majors, as well as students in other programs, are interested in pursuing medicine as a career. Although biology faculty have experience in pre-medical advising, none of us have attended medical school or work in medical fields. To address this problem, we would like to begin a program of young, accomplished guest speakers who are practicing physicians, who can interact with our students over 2 full days, through a large public seminar, as well as informal, small-group gatherings and field trips.</p> <p>Our first candidate is Dr. M. Josephine (MJ) Hessert. Dr. Hessert's short biography and resume are attached (uploaded with reports of previous IRA-funded activities). Dr. Hessert was chosen as our first guest speaker for several reasons:</p> <ol style="list-style-type: none"> <li>1. She is an active duty officer in the US Navy, and has served as a trauma surgeon in Afghanistan and a flight surgeon in Iraq. She earned her medical degree on a military scholarship. Although CI is close to major US Navy facilities and we have an active Veteran's Center on campus, our students don't often get the chance to connect with military personnel. We believe Dr. Hessert's visit will provide an important opportunity for students to do so.</li> <li>2. Dr. Hessert is currently doing a second residency in aerospace medicine. She is one of only two residents in this field nationally. Aerospace medicine trains physicians to treat conditions specific to space flight. This is a new and exciting field, that will continue to grow as the private sector enters the space travel industry.</li> <li>3. Dr. Hessert is a board certified emergency physician. Emergency and trauma medicine are specialties of great interest to many of our students and Dr. Hessert can provide information and advice from her first-hand experience applying to medical school, succeeding in medical school, deciding on a medical specialization, and completing a residency. She also has an excellent record of publications in medical science. No current CI personnel can offer this type of counsel to our students.</li> <li>4. Dr. Hessert is fluent in Spanish, an advocate for women in STEM careers, and a committed environmentalist. For she has served as a volunteer emergency physician on a variety of expeditions to polar regions.</li> </ol> <p>IRA funding, if approved, will support Dr. Hessert's travel to the CI campus, a large public seminar on the future of aerospace medicine, and a variety of activities (group meals, brown-bag talks on medical school applications, hikes, and a local hike/field trip) where students can interact one-on-one with Dr. Hessert.</p>
<b>Learning Outcomes and Relation to IRA to Course Offerings</b>	<p>BIOL 210/211: Human anatomy and physiology I &amp; II  BIOL 201: Principles of cell and molecular biology  BIOL 300: Cell biology  BIOL 303: Evolutionary biology  BIOL 304: Animal physiology  BIOL 333: Biology in the 21st Century  BIOL/POLS 345: Science &amp; public policy  BIOL 424: Human physiology  BIOL 499: Capstone special topics in astrobiology</p> <p>Students enrolled in these courses will be required to attend the public seminar and encouraged to attend the supplementary activities where possible.</p>

	<p>This speaker will be of interest to students in any course who have an interest in medical school, military careers, the space industry and space travel. It also supports the Biology Club's 2016-2017 mission to engage students in topics of biomedicine (as well as sustainability and marine biology).</p> <p>The speaker will address topics related to the following program learning outcomes:</p> <ol style="list-style-type: none"> <li>1. Explain the basic structures and fundamental processes of life at molecular, cellular and organismal levels.</li> <li>2. Identify the evolutionary processes that lead to adaptation and biological diversity.</li> <li>3. Describe the relationship between life forms and their environment and ecosystems.</li> <li>4. Collect, organize, analyze, interpret and present quantitative and qualitative data and incorporate them into the broader context of biological knowledge.</li> <li>5. Effectively apply current technology and scientific methodologies for problem solving.</li> <li>6. Find, select and evaluate various types of scientific information including primary research articles, mass media sources and world-wide web information.</li> <li>7. Communicate effectively in written and oral forms.</li> </ol>
<b>Description of Assessment Process</b>	Assessment will be carried out by a standard student evaluation form, which has been used successfully in the past for IRA funded biology symposia and guest speakers. Attendance at the public seminar and student participation in the smaller events will also be used as measures of success for this event.
<b>Activity Budget</b>	Denton_IRA_2016.xlsx
<b>CIA Budget</b>	—
<b>CIA Proposal</b>	—
<b>Course Syllabus</b>	—
<b>CIA Certification</b>	—
<b>Other Sources of Funding</b>	The Biology program will contribute \$200 from CERF funds toward printing and advertising, as well as \$500 (or more as required) for seminar refreshments, incidental expenditures, and overages due to unexpected increase in travel costs (Dr. Hessert is stationed in Pensacola FL).
<b>Target Audience/Student Marketing</b>	The target audience is undergraduate students, particularly those in STEM disciplines, with interests in medical and/or military careers. Fliers, social media, on-campus electronic advertising will all be used to promote this event. In addition, student attendance will be encouraged through the Biology Club and biology program faculty, who may require attendance at the seminar for course credit or extra credit.
<b>Bring Benefit to Campus</b>	n/a
<b>Sustainability</b>	—
<b>Program Chair/Director</b>	amy.denton
<b>Dean</b>	james.meriwether
<b>Acknowledgement</b>	I acknowledge that I have reviewed and accepted the Conditions and Considerations herein. Please check off boxes as appropriate.

**Program Chair/Director Review**

<b>Recommendation</b>	I recommend approval of the IRA Funds Request described on this page
<b>Name</b>	Amy Denton
<b>Date/Time</b>	9/30/2016 2:23:47 PM
<b>Validation</b>	myCI-signin-KV-0688
<b>Comments</b>	I tried to upload a biography and resume for Dr. Hessert, however, it did not seem to attach. I am happy to provide this information to the committee.

**Dean Review**

<b>Recommendation</b>	I recommend approval of the IRA Funds Request described on this page
<b>Name</b>	James Meriwether
<b>Date/Time</b>	9/30/2016 4:03:42 PM
<b>Validation</b>	myCI-signin-KX-2677
<b>Comments</b>	—

**IRA Committee Decision**

<b>Decision</b>	—
<b>Comments</b>	—

**Current Tasks**

Task	Time Assigned	Assigned To
IRA Committee Decision	9/30/2016 4:03:42 PM	<a href="#">David Daniels</a>

**Completed Tasks**

Task	Time Assigned	Time Completed	Completed By
Review from james.meriwether, Dean	9/30/2016 2:23:47 PM	9/30/2016 4:03:42 PM	<a href="#">James Meriwether</a>
Review from amy.denton, Program Chair/Director	9/30/2016 2:21:29 PM	9/30/2016 2:23:47 PM	<a href="#">Amy Denton</a>
Fill out Request	9/30/2016 1:05:59 PM	9/30/2016 2:21:29 PM	<a href="#">Amy Denton</a>

**Actions**

- [IRA Committee Decision](#)
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