GG 711 Special Topics: Seminar in Stable Isotope Ecology  
Tu-Th 1:30-2:45 pm, POST 702

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<table>
<thead>
<tr>
<th>Date</th>
<th>Subject</th>
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<tbody>
<tr>
<td>Week 1-3</td>
<td>No class - <em>Popp at Sea</em></td>
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<tr>
<td>Week 4-7</td>
<td>Introductory lectures and literature review</td>
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<td>Week 8</td>
<td>Definition of topics; hypothesis building; establish sample availability</td>
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<td>Week 9</td>
<td>Introduction to laboratory methods and sample preparation</td>
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<td>Week 9-13</td>
<td>Sample analysis, data reduction and discussion</td>
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<td>Week 14-16</td>
<td>Student presentations, writing assignments</td>
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**Course objectives and Grading:** The goal of this lecture and laboratory course is to introduce students to the use of stable isotope analyses in ecological and food web studies. Specifically this course will focus on the collection and interpretation of amino acid compound-specific isotope analyses (AA-CSIA). The specific objectives of the course are to identify an ecological problem of mutual interest to those enrolled in the class, build hypotheses that are testable using results of AA-CSIA, learn the techniques involved and gather the data necessary to produce a joint paper suitable for publication. Previous courses have resulted in publication of papers that are well cited in the literature (e.g., Popp et al. 2007, cited over 135 times; Hannides et al. 2009, cited 70 times; Drazen et al. 2008, cited 50 times). Grading will be based on student participation. The course will benefit those planning to use stable isotope analyses in their thesis research.

**Learning Outcomes:**

1) Improve critical thinking
2) Gain qualitative and quantitative data interpretation skills
3) Learn compound-specific isotope analysis techniques
4) Apply lessons to a joint research project
5) Classroom discussions and student presentations will improve effective communication

**Disability Access:**
If you have a disability and related access needs the Department will make every effort to assist and support you. For confidential services students are encouraged to contact the Office for Students with Disabilities (known as “Kokua”) located on the ground floor (Room 013) of the Queen Lili'uokalani Center for Student Services:

**KOKUA Program**
2600 Campus Road
Honolulu, Hawaii 96822
Office hours 7:45 AM – 4:30 PM
Voice: 956-7511
Email: kokua@hawaii.edu
URL: <www.hawaii.edu/kokua>