4th Stable Isotope Course in Ecology and Environmental Sciences

22nd - 25th February 2022

Inscription

From November 29th to January 28th

Send inscription form to: lie@ebd.csic.es

Room 1: Plenary Room. Ground Floor EBD

Room 2: LIE Lab. First Floor EBD

Director of the course: Manuela G. Forero

Course Language: English and Spanish
## Tuesday, 22nd February

### INTRODUCTION TO STABLE ISOTOPES AND LAB PRACTICES FOR BULK SIA

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>9:30</td>
<td>Welcome opening at EBD, registration and presentation of participants. <strong>Manuela G. Forero</strong>, EBD-CSIC</td>
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<tr>
<td>10:00</td>
<td><strong>Room 1</strong>&lt;br&gt;Introduction to Stable Isotope Ecology: Principles and general applications. <strong>Keith A. Hobson</strong>, Western University (Ontario, Canada)</td>
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<td>11:30</td>
<td><strong>Coffe break</strong></td>
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<td>12:00</td>
<td><strong>Room 1</strong>&lt;br&gt;Main methodological aspects of SIA: isotopic turnover, diet-to-tissue discrimination factors, confounding effects on SIA interpretation. <strong>Joan Giménez</strong> (ICM-CSIC, Barcelona)</td>
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<td>13:30</td>
<td><strong>Lunch time</strong></td>
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<td>15:00</td>
<td><strong>Room 1</strong>&lt;br&gt;Principles and applications of IRMS to ecological studies: recent developments in laboratory instrumentation and new perspectives in isotope ratios analysis. <strong>Ricardo Álvarez</strong> (ThermoFisher, Granada)</td>
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<td>16:00</td>
<td><strong>Group 1. Parallel Session. Room 2.</strong>&lt;br&gt;Sample collection, preparation, analysis for SI in bulk, results correction <strong>Susana Carrasco and Sarai López</strong> (LIE-EBD, CSIC, Sevilla)</td>
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<td><strong>Group 2. Parallel Session</strong>&lt;br&gt;Visit to Scientific Collections at EBD. <strong>Carlos Urdiales</strong> (EBD-CSIC)</td>
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<td>17:00</td>
<td><strong>Coffe break</strong></td>
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<tr>
<td>17:30</td>
<td><strong>Group 2. Parallel Session. Room 2.</strong>&lt;br&gt;Sample collection, preparation, analyses for SI in bulk, results correction. <strong>Sarai López and Susana Carrasco</strong> (LIE-EBD, CSIC)</td>
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<td><strong>Group 2. Parallel Session</strong>&lt;br&gt;Visit to Scientific Collections at EBD. <strong>Carlos Urdiales</strong> (EBD-CSIC)</td>
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<td>20:00</td>
<td><strong>Tapas in Sevilla downtown</strong> (OPTIONAL, NOT INCLUDED IN THE REGISTRATION COSTS)**</td>
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<td>9:30</td>
<td>Room 1</td>
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<td></td>
<td>Participants will make a short presentation of their research interests,</td>
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<td>the contribution of stable isotopes to their specific research, and how</td>
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<td>this course could improve their results</td>
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<td>11:30</td>
<td>Coffee break</td>
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<td>12:00</td>
<td>Room 1</td>
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<tr>
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<td>Introduction to Compound Specific Stable Isotope Analyses and their</td>
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<td>applications: stable isotopes in individual amino acids (CSIA-AA) as a</td>
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<td>tool to ecological studies.</td>
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<td><em>Seth Newsome (University of New Mexico, Albuquerque, NM, USA)</em></td>
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<td>13:30</td>
<td>Lunch time</td>
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<td>15:00</td>
<td>Room 1</td>
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<td>How to combine Bulk and CSIA results in ecological studies?</td>
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<td></td>
<td><em>Keith A. Hobson (Western University, Ontario, Canada)</em></td>
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<td>16:00</td>
<td>Room 1</td>
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<td></td>
<td>Sample preparation in CSIA (preservation and storage, processing,</td>
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<td>derivatization reactions).</td>
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<td><em>Antoni Rosell Mele (ICTA-UAB, Barcelona)</em></td>
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<td>17:00</td>
<td>Coffee break</td>
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<td>17:30</td>
<td>Room 1</td>
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<td>Biogeochemical and archaeological applications of compound specific</td>
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<td>isotopic measurement of δ15N, δ13C and δ2H.</td>
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<td></td>
<td><em>Antoni Rosell Mele (ICTA-UAB, Barcelona)</em></td>
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<td>18:30</td>
<td>End of the day</td>
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FIELD TRIP TO DOÑANA NATIONAL PARK

8:30 Meeting at the entrance of the EBD ready to take a group picture before leaving to Doñana National Park.

8:45 Field trip to Doñana National Park and lunch in Matalascañas (LUNCH NOT INCLUDED IN THE REGISTRATION COSTS)

17:00 End of the day