



Leibniz Institute for Zoo
and Wildlife Research
IN THE FORSCHUNGSVERBUND BERLIN E.V.

International Summer School on Stable Isotopes in Animal Ecology

For graduate or postgraduate students interested in learning techniques related to the analysis and interpretation of stable isotope ratios in the study of animal ecology.

Organising Institution: Centre for Stable Isotope Ecology in Berlin-Brandenburg

When: 12.-16. September 2016

Where: Leibniz Institute for Zoo and Wildlife Research (IZW), Germany (www.izw-berlin.de)

Costs: 350€ per participant (includes consumables in laboratory, BBQ, coffee breaks)

Content:

-> Stable nitrogen and carbon isotope ratios as markers for animal diets and trophic positions

-> Analyses of stable hydrogen isotope ratios for the study of animal migration (includes application of isoscape origin models)

-> Use of labeled compounds in eco-physiological studies

-> Use of multiple isotopes in the study of food webs and trophic interactions

-> Use of stable isotope approaches in paleo climate reconstructions

Students will be involved in all aspects of sample preparation and analysis as well as data interpretation. Used instruments include conventional gas mass spectrometers (Thermo) and laser spectrometers (LGS, Picarro)

Instructors and lecturers (in alphabetical order):

Stuart Bearhop (U of Exeter): Stable isotope ecology of seabirds

Alexandre Courtiol (IZW): Statistics for stable isotope data (e.g. Bayesian models)

Keith Hobson (U of Western Ontario): Stable isotopes in animal ecology

Stephanie Kramer-Schadt (IZW): Isoscape origin models

Ulrich Struck (Natural History Museum Berlin): stable isotopes and paleoecology

Christian Voigt (IZW): Ecophysiology of mammals

Len Wassenaar (IAEA, Vienna): Global patterns of stable hydrogen isotope ratios

Roland Werner (ETH, Zurich): Stable isotope ratios in plants

Elizabeth Yohannes (U of Konstanz): Stable isotopes in limnology

Registration: Deadline: 1. June 2016; The course is limited to 16 students:

Applications should include a CV, a statement of interest and 2 reference addresses (not letters). Please send applications or inquiries to Dr. Christian Voigt at

voigt@izw-berlin.de