Ray P. Authement College of Sciences | School of Geosciences

Stable Isotope Laboratory

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UNIVERSITY of LOUISIANA LAFAYETTE

THE LAB

Our lab is dedicated to using stable isotopes to advance our understanding of biological and geological systems. We have 690 ft^2 of lab space in Hamilton Hall that is fully equipped for preparation and analysis of organic samples for stable isotope analysis (C, N, and O).

WHAT WE MEASURE

We can prepare and measure a wide range of geological and biological samples for stable isotope analysis, including (but not limited to):

- Sediments
- Plant tissues
- Bulk organic matter
- Animal tissues (e.g., fish)
- Oils
- Cellulose
- Soils
- Wood

WHO WE ARE

We are undergraduate students, graduate students, postdoctoral scientists, visiting scientists, professional staff, and faculty.

WHERE WE WORK

WHAT WE STUDY

- Atmospheric chemistry
- Fossil wood
- Monsoon environments
- Climate change
- Flood frequency
- Rapid climate change
- Diet and food webs
- Forensics
- Arctic ecosystems
- Terrestrial photosynthesis
- Fossil organic matter
- Environmental change

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