

NOSAMS: Staff Research

The facility serves as the principal home for several staff members with additional research activities that are supported by other funds.

[William J. Jenkins](#)



William J. Jenkins, (Director of NOSAMS) is a tracer geochemist whose research activities include the study of ocean circulation and ventilation, carbon and nutrient cycles, and the impact of climate change on them.

[Karl von Reden](#)



Karl von Reden, staff physicist, founding member of the NOSAMS Facility, responsible for the Tandatron AMS operations, is interested in ion source and accelerator modeling calculations and design. Side interests are AMS radiocarbon dating of tropical wood and interaction of ion beams with nanoscale materials.

[Ann McNichol](#)



Ann McNichol, staff chemist and director of the sample-preparation laboratory, is studying the distribution of ^{13}C in oceanic DIC in order to understand the ocean's role in the uptake of fossil-fuel-derived CO_2 and to examine other processes in the carbon cycle.

[Mark L. Roberts](#)



Mark Roberts, staff physicist responsible for CFAMS development, is interested in interdisciplinary application of Accelerator Mass Spectrometry, development of AMS technology, and ion microanalysis techniques. He is working on an initiative to re-determine the ^{14}C half-life.

[John M. Hayes](#)



John Hayes (emeritus, retired director of NOSAMS), maintains a program of research in isotopic biogeochemistry.

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