

Curriculum Vitae

Kevin C. Druffel-Rodriguez

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EDUCATION

Loyola Marymount University, Los Angeles, CA
Bachelor of Science in Chemistry - 2008, ACS Certified

RESEARCH EXPERIENCE

Laboratory Assistant

Summer 2002 & 2003 - University of California, Irvine, worked for John Southon, Keck Carbon Cycle AMS Lab, assisted in the set up and moving of accelerator mass spectrometer (^{14}C), constructed vacuum lines for graphite preparation, and assembled electronic boxes for temperature and pressure control of ovens on graphite line.

January 2004 - UCI, worked for Dr. William F. Cain S.J. (on sabbatical from LMU) making graphite for his ^{14}C in tree rings project.

Summer 2004 and 2007-2008, UCI, Radiocarbon Lab,

January 2008-May 2009, UCI Trumbore Lab, isotope analysis of terrestrial samples including soils and trees.

FIELD WORK

R/V New Horizon

15-28 Aug 2001, San Diego-Station M-San Diego with UCI Dept. of Earth System Science (S. Griffin and E. Druffel) - helped deploy and recover in situ pumps, Go-flo bottles, rosette and multi-corer.

Palmyra Research Station: 31 May – 10 June 2007, assisted with collection of coral cores and assisted with servicing of SCUBA and coring gear.

TEACHING AND LABORATORY EXPERIENCE

Teaching Assistant

Fall 2006 - Teaching Assistant, Department of Chemistry, LMU, trained TAs for organic and instrumental chemistry lab experiments.

Laboratory Assistant

Fall 2006 - Assisted George Dinius (Laboratory Manager, Chemistry Dept., LMU) with the maintenance and set up of most instrumentation in the LMU Department of Chemistry and Biochemistry.

PUBLICATIONS

Southon, J. G. M. Santos, **K.C. Druffel-Rodriguez**, E.R.M. Druffel, S.E. Trumbore, X. Xu, S. Griffin; S. Ali; M. Mazon (2004). The Keck Carbon Cycle AMS Laboratory, U.C.I.: Initial operation and a background surprise.

Radiocarbon 46(1), 41-50.

Druffel, E. R. M, S. Griffin, J. Hwang, T. Komada, S. R. Beaupre, **K. C. Druffel-Rodriguez**, G. M. Santos and J. Southon (2004) Variability of radiocarbon during the 1760s in monthly corals from the Galapagos Islands, Radiocarbon 46(2), 627-632.

Santos, G. M., J. R. Southon, J.R., **K. C. Druffel-Rodriguez**, S. Griffin, M. Mazon (2004) Magnesium perchlorate as an alternative water trap in AMS graphite sample preparation: A report on sample preparation at KCCAMS at the University of California, Irvine, Radiocarbon 46(1), 165-173.

AWARDS

First Place, Orange County High School Science Fair, spring 2003, Spectroscopy Division
California Governor's College Scholarship (\$1000), August 2003

COMPUTER EXPERIENCE

Familiar with Microsoft and Macintosh Operating systems, Microsoft Office Products (Microsoft Word, Excel, Powerpoint, Adobe Illustrator), NMRWizard, NMRQueue.

LABORATORY EQUIPMENT EXPERIENCE

Proficient: Varian Gas Chromatograph with flame ionization detectors, Bruker 300MHz Superconducting Multinuclear FT NMR Spectrometer, Perkin Elmer GC 8500, Perkin Elmer 1600 series FTIR Spectrometer, Perkin Elmer Lambda 40 UV/VIS Spectrophotometer, gas vacuum lines for CO₂ and graphite preparation for ¹⁴C measurement by AMS.

Familiar with: National Electrostatics Corporation 0.5MV Accelerator Mass Spectrometer, Varian 3400 Saturn II GC-MS with Tekmar Model 5010 Automatic Desorber.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Chemistry Society - LMU student affiliate
American Geophysical Union
American Society of Limnology and Oceanography

OUTSIDE ACTIVITIES

Member LMU Men's Varsity Crew 2003-2007 (Co-captain 2006-2007)
Most Inspirational Oarsman, 2003-2004
Member University High School Varsity Wrestling Team 1999-2003