

Bruce Buchholz: Selected Publications

Sample Preparation

Paula Zermeño, Dorothy K. Kurdyla, Bruce A. Buchholz, Samuel Heller, Brian R. Frantz, Thomas A. Brown and Michaela Kashgarian. Preventing and Removing Contamination From a Natural Radiocarbon Preparation Laboratory. *Submitted to Nuclear Instruments and Methods B*.

Bruce A. Buchholz, Stewart P. H. T. Freeman, Kurt W. Haack, John S. Vogel. (2000) Tips and Traps in the Biological ^{14}C AMS Prep Lab. *Nuclear Instruments and Methods B* **172**, 404-408.

Bruce A. Buchholz, Stephen R. Dueker, Yumei Lin, Andrew J. Clifford, John S. Vogel. (2000) Methods and Applications of HPLC-AMS. *Nuclear Instruments and Methods B* **172**, 910-914.

Combustion Systems

Bruce A. Buchholz, Robert W. Dibble, David Rich and A.S. (Ed) Cheng. (2003) Quantifying the contribution of lubrication oil carbon to particulate emissions from a diesel engine. *SAE Technical Paper 2003-01-1987*.

Bruce A. Buchholz, Adelbert S. Cheng, Robert W. Dibble, Charles J. Mueller and Glen C. Martin. (2002) Isotopic Tracing of Fuel Component Carbon in the Emissions From Diesel Engines. *SAE Technical Paper 2002-01-1942*.

A. S. Cheng, R. W. Dibble and B. A. Buchholz. (2002) The Effect of Oxygenates on Diesel Engine Particulate Matter. *SAE Technical Paper 2002-01-1705*.

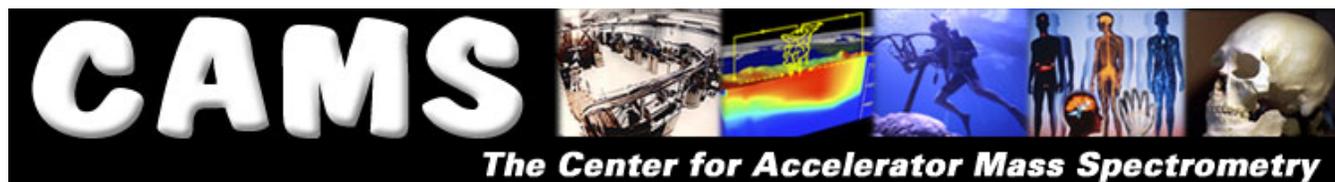
Bruce A. Buchholz, Adelbert S. Cheng and Robert W. Dibble. (2002) Isotopic Tracing of Bio-Derived Carbon from Ethanol-in-Diesel Blends in the Emissions of a Diesel Engine. *SAE Technical Paper 2002-01-1704*.

Pharmacokinetics

John S. Vogel, Garrett A. Keating III and Bruce A. Buchholz. (2002) Protein Binding of Isoflurorophate in vivo after Co-exposure to Multiple Chemicals. *Environ. Health Perspectives*. **110**: **S6** 1031-1036.

S.J. Hickenbottom, S. L. Lemke, S. R. Dueker, Y. M. Lin, J. R. Follett, C. Carkeet, B. A. Buchholz, J. S. Vogel, and A. J. Clifford. (2002) Dual isotope test for assessing beta-carotene cleavage to vitamin A in humans. *Euro. J. Nut.* **41** 141-147.

Stephen R. Dueker, Yumei Lin, Bruce A. Buchholz, Phillip D. Schneider, Michael W. Lamé, H. J. Segall, John S. Vogel, and Andrew J. Clifford. (2000) Long Term Kinetic Study of β -carotene using Accelerator Mass Spectrometry in an Adult Volunteer. *J. Lipid Res.* **41**, 1790-1800.



The Center for Accelerator Mass Spectrometry
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B. A. Buchholz, E. Fultz, K. W. Haack, J. S. Vogel, S. D. Gilman, S. Gee, B. D. Hammock, X. Hui, R. C. Wester, and H. I. Maibach. (1999) HPLC-AMS Measurement of Atrazine Metabolites in Human Urine after Dermal Exposure, *Anal. Chem.* **71** ,3519-3525.

B. A. Buchholz, A. Arjomand, S. R. Dueker, P. D. Schneider, A. J. Clifford, and J. S. Vogel. (1999) Intrinsic Erythrocyte Labeling and Attomole Pharmacokinetic Tracing of ^{14}C -Folic Acid with Accelerator Mass Spectrometry, *Anal. Biochem.* **269** , 348-352.

Quantitative Biology

M. A. Lovell, J. D. Robertson, B. A. Buchholz, C. Xie, W. R. Markesbery. (2002) Use of bomb pulse carbon-14 to age senile plaques and neurofibrillary tangles in the Alzheimer's Disease Brain. *Neurobiology of Aging* **23** 179-186.

[J. S. Vogel, P. G. Grant, B. A. Buchholz, K. H. Dingley, and K. W. Turteltaub. \(2001\) Attomole quantitation of protein separations with accelerator mass spectrometry. *Electrophoresis* **22** 2037-2045.](#)

[Masahiro Miyashita, Jack M. Presley, Bruce A. Buchholz, Kit S. Lam, Young Moo Lee, John S. Vogel and Bruce D. Hammock. \(2001\) Attomole level protein sequencing by Edman degradation coupled with accelerator mass spectrometry. *PNAS* **98** 4403-4408.](#)

Guomin Shan, Wei Huang, Shirley J. Gee, Bruce A. Buchholz , John S. Vogel and Bruce D. Hammock. (2000) Isotope Labelled Immunoassays without Radioactive Waste, *PNAS* **97** 2445-2449.

Chuanyi M. Lu, Douglas W. Burton, Robert L. Fitzgerald, Leonard J. Deftos, Bruce A. Buchholz, John S. Vogel, and David A. Herold. (2002) Mass Spectrometric Immunoassay for Parathyroid Hormone-Related Protein, *Analytical Chemistry*, **74**, 5507-5512.