

Report Information				
Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	0929991	066470972	2011 / 1	No

Award Recipient Information	
Recipient DUNS Number 066470972	Recipient Address 1 107 SAMFORD HALL
Recipient Account Number 219034	Recipient Address 2
Recipient Congressional District 02	Recipient City AUBURN
Parent DUNS Number 066470972	Recipient State AL
Recipient Type 2U.G6.M8.OH.VW	Recipient ZIP Code + 4 368490001
Recipient Legal Name AUBURN UNIVERSITY	Recipient Country USA
Recipient DBA Name	

Project / Award Information	
Funding Agency Code 4900	Total Number of Sub Awards less than \$25,000/award 0
Awarding Agency Code 4900	Total Amount Sub Awards less than \$25,000/award 0.00
Program Source (TAS) Code 49-0101	Total Number of Sub Awards to Individuals 0
Sub Account Number for Program Source	Total Amount of Sub Awards to Individuals 0.00
CFDA Number 47.082	Total Number of Payments to Vendors less than \$25,000/award 26
Amount of Award 148505.00	Total Amount of Payments to Vendors less than \$25,000/award 26678.16
Award Date 06/22/2009	
Award Description Development of Electronic Systems for Noble Gas Analysis: this award presents a plan for instrument development to address the strong demand for inexpensive, high precision analyses of noble gases by many Earth scientists in the U.S. and worldwide.	

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Project Information

Project Name or Project/ Program Title	Development of Electronic Systems for Noble Mass Spectrometers	Activity Codes (NAICS or NTEE-NPC) (up to 10)
Quarterly Activities/ Project Description	<p>The project activities began with statements of specifications for a spectrometer 'analyzer' control device (the analyzer is a powerful electromagnet that separates ions for measurement). The project consultant (J. Pieronek) then built a prototype of the analyzer control device to meet these specifications. This prototype was tested in December of 2010 in the Berkeley Geochronology Center (BGC) on a commercial spectrometer (built ~ 1990 by Mass Analyzer Products, Ltd., 'MAP') that is in need of electronics upgrade. Hames worked with consultant Pieronek and participant T. Becker of the BGC for this testing using facilities of the BGC. Final versions of the analyzer control device will be constructed by Pieronek for the noble gas spectrometer at Auburn University and for the BGC as described in the original proposal. This work will complete the first major electronic equipment goal of the project.</p> <p>Pieronek has gathered the specifications and he has completed designs for a set of high-voltage controls for the spectrometer 'sources' (chambers that create the charged ions for mass spectrometer measurement). Pieronek has begun construction of the prototype source controls. Prototypes for this set of source controls will first be tested on a MAP spectrometer using facilities of the BGC. Once testing is complete, Pieronek will build</p>	<p>Activity Code 1 B43 - NTEE Activity Code 2 Activity Code 3 Activity Code 4 Activity Code 5 Activity Code 6 Activity Code 7 Activity Code 8 Activity Code 9 Activity Code 10</p>

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and install a final set of controls for the spectrometer at Auburn University, and a second set for the MAP spectrometer at the BGC.

In support of the equipment development in the noble gas lab at Auburn University we have also installed new lab computers, upgraded operating software, and completed tasks in computer programming (aided by Auburn University undergraduate student Justin Ryersey).

60% of the total project activities are complete as of the date for this report.

Project Status Completed 50% or more
Total Federal Amount ARRA Funds Received/ Invoiced 90277.74
Number of Jobs 0.00
Description of Jobs Created No jobs this quarter
Total Federal Amount of ARRA Expenditure 90277.74
Total Federal ARRA Infrastructure Expenditure 0.00
Infrastructure Purpose and Rationale

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Infrastructure Contact

Name	Street Address 1
Email	Street Address 2
Phone	Street Address 3
Ext	City
	State
	ZIP Code + 4

Primary Place of Performance

Address 1	Department of Geology and Geography
Address 2	210 Petrie Hall
City	Auburn University
Country Code	US
State	AL
ZIP Code + 4	36849 - 0001
Congressional District	02

Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name
Officer 1 Name		Officer 3 Compensation
Officer 1 Compensation		Officer 4 Name
Officer 2 Name		Officer 4 Compensation
Officer 2 Compensation		Officer 5 Name
		Officer 5 Compensation

Report Audit Trail

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