

Report Information

Award Type	Award Number	Prime DUNS	Calendar Yr/Qtr	Final Report
Grant	0929991	066470972	2011 / 4	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	27
Amount of Award	148505.00	Total Amount of Payments to Vendors less than \$25,000/award	27261.36
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	Quarterly Activities/ Project Description	Activity Codes (NAICS or NTEE-NPC) (up to 10)
Development of Electronic Systems for Noble Mass Spectrometers	<p>December 2011, Pieronek visited Auburn University with the first analyzer control device and worked with participants Hames, Illies, and Billor for three days of testing. The device was returned to JVP Systems facility in San Diego for modification and final construction.</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 and install a final set of controls for the spectrometer at Auburn University, and a second set for the MAP spectrometer at the BGC.</p> <p>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). Auburn University also supported an upgrade to air conditioning facilities for the lab. Dr. Zeki Billor, Graduate student Mitchell Moore, and undergraduate student Catherine Priester assisted the project in the past quarter in tasks of equipment design, computer programming, and</p>	<p>Activity Code 1 B43 - NTEE</p> <p>Activity Code 2</p> <p>Activity Code 3</p> <p>Activity Code 4</p> <p>Activity Code 5</p> <p>Activity Code 6</p> <p>Activity Code 7</p> <p>Activity Code 8</p> <p>Activity Code 9</p> <p>Activity Code 10</p>

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web resource development. In the past quarter the US Geological Survey and Dr. Michael Cosca became government partners in the project, and donated a ~1985 vintage Mass Analyzer Products mass spectrometer to the project (a MAP-215). This instrument is the same model as instruments in the Berkeley lab, and a target for upgrade and development in many labs of the US. This MAP-215 instrument has been disassembled for cleaning and repair, and is currently being rebuilt at Auburn University. 75% 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 91129.21

Number of Jobs 0.00

Description of Jobs Created No jobs this quarter

Total Federal Amount of ARRA Expenditure 91129.21

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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