

Report Information				
Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	0915045	066470972	2011 / 2	No

Award Recipient Information	
<b>Recipient DUNS Number</b> 066470972	<b>Recipient Address 1</b> 107 SAMFORD HALL
<b>Recipient Account Number</b> 219046	<b>Recipient Address 2</b>
<b>Recipient Congressional District</b> 02	<b>Recipient City</b> AUBURN
<b>Parent DUNS Number</b> 066470972	<b>Recipient State</b> AL
<b>Recipient Type</b> 2U.G6.M8.OH.VW	<b>Recipient ZIP Code + 4</b> 368490001
<b>Recipient Legal Name</b> AUBURN UNIVERSITY	<b>Recipient Country</b> USA
<b>Recipient DBA Name</b>	

Project / Award Information	
<b>Funding Agency Code</b> 4900	<b>Total Number of Sub Awards less than \$25,000/award</b> 0
<b>Awarding Agency Code</b> 4900	<b>Total Amount Sub Awards less than \$25,000/award</b> 0.00
<b>Program Source (TAS) Code</b> 49-0101	<b>Total Number of Sub Awards to Individuals</b> 0
<b>Sub Account Number for Program Source</b>	<b>Total Amount of Sub Awards to Individuals</b> 0.00
<b>CFDA Number</b> 47.082	<b>Total Number of Payments to Vendors less than \$25,000/award</b> 11
<b>Amount of Award</b> 175777.00	<b>Total Amount of Payments to Vendors less than \$25,000/award</b> 21459.24
<b>Award Date</b> 09/14/2009	
<b>Award Description</b> The investigator and his students will study poromechanical models analytically (existence and uniqueness), develop and rigorously analyze finite element based methods for approximating solutions of various model problems in poromechanics, and derive a-priori and a-posteriori error estimates. They will advance the underlying mathematical theory and the science of computer simulation of large-scale, complex, coupled, multi-scale phenomena. Deliverables may include scientific reports, journal publications, conference presentations, and computer programs.	

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**Project Information**

Project Name or Project/ Program Title	Studies in Poromechanics and Electro-Poromechanics	Activity Codes (NAICS or NTEE-NPC) (up to 10)
<b>Quarterly Activities/ Project Description</b>	<p>"Working on the analysis and numerical analysis of a stationary poroelasticity model (we are studying the existence and uniqueness of solutions, and their numerical approximation). Writing a research paper titled, "Steady Flow in a Compressible Porous Medium".</p> <p>Writing a research paper titled, "PFLOW: A 3-Dimensional Time-Dependent Pore-Pressure Diffusion Model".</p> <p>The first version of the Matlab program PFlow has been released, and distribution has begun for researchers and educators.</p>	<p><b>Activity Code 1</b> B43 - NTEE</p> <p><b>Activity Code 2</b></p> <p><b>Activity Code 3</b></p> <p><b>Activity Code 4</b></p> <p><b>Activity Code 5</b></p> <p><b>Activity Code 6</b></p> <p><b>Activity Code 7</b></p> <p><b>Activity Code 8</b></p> <p><b>Activity Code 9</b></p> <p><b>Activity Code 10</b></p>
<b>Project Status</b>	Less than 50% completed	
<b>Total Federal Amount ARRA Funds Received/ Invoiced</b>	81077.10	
<b>Number of Jobs</b>	0.89	
<b>Description of Jobs Created</b>	Faculty and Graduate Assistants	
<b>Total Federal Amount of ARRA Expenditure</b>	105202.38	
<b>Total Federal ARRA Infrastructure Expenditure</b>	0.00	
<b>Infrastructure Purpose and Rationale</b>		

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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**

<b>Address 1</b>	Department of Mathematics and Statistics
<b>Address 2</b>	221 Parker Hall
<b>City</b>	Auburn University
<b>Country Code</b>	US
<b>State</b>	AL
<b>ZIP Code + 4</b>	36849 - 0001
<b>Congressional District</b>	02

**Recipient Highly Compensated Officers**

<b>Prime Recipient Indication of Reporting Applicability</b>	No	<b>Officer 3 Name</b>
<b>Officer 1 Name</b>		<b>Officer 3 Compensation</b>
<b>Officer 1 Compensation</b>		<b>Officer 4 Name</b>
<b>Officer 2 Name</b>		<b>Officer 4 Compensation</b>
<b>Officer 2 Compensation</b>		<b>Officer 5 Name</b>
		<b>Officer 5 Compensation</b>

**Report Audit Trail**

<b>Created By</b>	Cindy Selman
<b>Date Created</b>	07/07/2011 12:03 PM
<b>Last Updated By</b>	Cindy Selman
<b>Last Updated On</b>	07/07/2011 12:03 PM