

| Report Information | | | | |
|--------------------|---------------------|-------------------|------------------------|---------------------|
| Award Type | Award Number | Prime DUNS | Calendar Yr/Qtr | Final Report |
| Grant | 0915045 | 066470972 | 2011 / 4 | No |

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

| Project / Award Information | |
|--|--|
| Funding Agency Code | 4900 |
| Awarding Agency Code | 4900 |
| Program Source (TAS) Code | 49-0101 |
| Sub Account Number for Program Source | |
| CFDA Number | 47.082 |
| Amount of Award | 175777.00 |
| Award Date | 09/14/2009 |
| Award Description | 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. |
| Total Number of Sub Awards less than \$25,000/award | 0 |
| Total Amount Sub Awards less than \$25,000/award | 0.00 |
| Total Number of Sub Awards to 0 Individuals | 0 |
| Total Amount of Sub Awards to 0 Individuals | 0.00 |
| Total Number of Payments to 13 Vendors less than \$25,000/award | 13 |
| Total Amount of Payments to 22349.20 Vendors less than \$25,000/award | 22349.20 |

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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) |
|---|--|---|
| Quarterly Activities/ Project Description | <p>Working with Y. Cao 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 with Y. Cao: "Steady Flow in a Compressible Porous Medium"</p> <p>Writing a research paper with L. W. Wolf, M.-K. Lee and G. Dyer "PFLOW: A 3-Dimensional Time-Dependent Pore-Pressure Diffusion Model".</p> <p>The first version of the Matlab program PFlow has been released; L. W. Wolf (Geology and Geography) has been handling its distribution to researchers and educators.</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> |
| Project Status | Completed 50% or more | |
| Total Federal Amount ARRA Funds Received/ Invoiced | 113653.54 | |
| Number of Jobs | 0.00 | |
| Description of Jobs Created | No jobs to report this quarter | |
| Total Federal Amount of ARRA Expenditure | 114748.54 | |
| 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 Mathematics
and Statistics
Address 2 221 Parker 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

Created By Cindy Selman
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