

**Report Information**

<b>Award Type</b>	<b>Award Number</b>	<b>Prime DUNS</b>	<b>Calendar Yr/Qtr</b>	<b>Final Report</b>
Grant	0854010	066470972	2011 / 4	Yes

**Award Recipient Information**

<b>Recipient DUNS Number</b>	066470972	<b>Recipient Address 1</b>	107 SAMFORD HALL
<b>Recipient Account Number</b>	219040	<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>	55
<b>Amount of Award</b>	71000.00	<b>Total Amount of Payments to Vendors less than \$25,000/award</b>	31362.76
<b>Award Date</b>	08/14/2009		
<b>Award Description</b>	Rheology of Lyotropic Nematogenic Nanorod Dispersions - This award will enable investigation of the fundamental rheological behaviors of nanocylinder liquid crystals, particularly, SWNT-DNA liquid crystals. This will enable improved understanding, development and eventual commercializaion of advanced materials enabled by liquid crystalline processing.		

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**Project Information**

<b>Project Name or Project/ Program Title</b>	Rheology of Lyotropic Nematogenic Nanorod Dispersions	<b>Activity Codes (NAICS or NTEE-NPC) (up to 10)</b>
<b>Quarterly Activities/ Project Description</b>	This project investigated how single-walled carbon nanotubes, one of the worlds strongest and most conductive materials can be dispersed in solutions of DNA. The focus is on understanding the rheology or flow response of these systems. This is important for knowing how these dispersions can be processed into advanced materials such as films with unique optical signatures and sensors. Essentially four variables were investigated 1) how the dispersion is prepared 2) the nanotube concentration 3) the shear rate and 4) the temperature. This fundamental research project is fully completed and will help in the development of advanced materials for sensors and multifunctional coatings. This is the Final Report	<b>Activity Code 1</b> B43 - NTEE <b>Activity Code 2</b> <b>Activity Code 3</b> <b>Activity Code 4</b> <b>Activity Code 5</b> <b>Activity Code 6</b> <b>Activity Code 7</b> <b>Activity Code 8</b> <b>Activity Code 9</b> <b>Activity Code 10</b>
<b>Project Status</b>	Fully Completed	
<b>Total Federal Amount ARRA Funds Received/ Invoiced</b>	71000.00	
<b>Number of Jobs</b>	0.00	
<b>Description of Jobs Created</b>	No jobs to report this quarter	
<b>Total Federal Amount of ARRA Expenditure</b>	71000.00	
<b>Total Federal ARRA Infrastructure Expenditure</b>	0.00	
<b>Infrastructure Purpose and Rationale</b>		

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**Infrastructure Contact**

<b>Name</b>	<b>Street Address 1</b>
<b>Email</b>	<b>Street Address 2</b>
<b>Phone</b>	<b>Street Address 3</b>
<b>Ext</b>	<b>City</b>
	<b>State</b>
	<b>ZIP Code + 4</b>

**Primary Place of Performance**

**Address 1** 212 Ross Hall  
**Address 2**  
**City** Auburn University  
**Country Code** US  
**State** AL  
**ZIP Code + 4** 36849 - 0001  
**Congressional District** 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**

**Created By** Cindy Selman  
**Date Created** 01/03/2012 04:22 PM  
**Last Updated By** Cindy Selman  
**Last Updated On** 01/06/2012 08:32 AM