

**Report Information**

Award Type	Award Number	Prime DUNS	Calendar Yr/Qtr	Final Report
Grant	0905818	066470972	2011 / 3	No

**Award Recipient Information**

<b>Recipient DUNS Number</b>	066470972	<b>Recipient Address 1</b>	107 SAMFORD HALL
<b>Recipient Account Number</b>	219041	<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>	2
<b>Amount of Award</b>	116653.00	<b>Total Amount of Payments to Vendors less than \$25,000/award</b>	253.55
<b>Award Date</b>	08/17/2009		
<b>Award Description</b>	<p>The proposed research is divided into five parts: (1) Investigate Hausdorff dimension of minimal sets of known counterexamples to the Modified Seifert Conjecture; (2) Investigate periodic orbits and periodic points in neighborhoods of planar adding machines and in neighborhoods of solenoids in the three-dimensional Euclidean space; (3) Prove a special case of the Bounded Total Curvature Conjecture; (4) Study pseudo-solenoids; and (5) Study fixed points in a continuum invariant under an orientation reversing homeomorphism of the plane. Basically, the purpose of this project is research in topology, geometry and dynamics. The results will be publications, conference and colloquium lectures, and conference organizing. Another purpose is to educate graduate students</p>		

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and lead their research.

**Project Information**

Project Name or Project/ Program Title	Activity Codes (NAICS or NTEE-NPC) (up to 10)
<p><b>Quarterly Activities/ Project Description</b> Topical Solutions</p> <p>The activities include:                      publications in print,                      publications in preparation,                      several plenary conference                      lectures, several special                      session invited talks at                      topology/dynamics                      conferences, several                      colloquium talks, organizing                      three special sessions at                      topology conferences;                      organizing an American                      Mathematical Society special                      session at the Joint                      Mathematics Meetings in New                      Orleans, Jan 2011.</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>
<p><b>Project Status</b> Completed 50% or more</p> <p><b>Total Federal Amount ARRA Funds Received/ Invoiced</b> 101785.34</p> <p><b>Number of Jobs</b> 0.33</p> <p><b>Description of Jobs Created</b> Faculty</p> <p><b>Total Federal Amount of ARRA Expenditure</b> 101785.34</p> <p><b>Total Federal ARRA Infrastructure Expenditure</b> 0.00</p>	

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**Infrastructure Purpose and  
Rationale**

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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** 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**

<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** 10/02/2011 10:21 PM  
**Last Updated By** Cindy Selman  
**Last Updated On** 10/10/2011 10:08 AM