

Report Information				
Award Type	Award Number	Prime DUNS	Calendar Yr/Qtr	Final Report
Grant	0907752	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> 219030	<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> 7
<b>Amount of Award</b> 203183.00	<b>Total Amount of Payments to Vendors less than \$25,000/award</b> 1130.98
<b>Award Date</b> 05/21/2009	
<b>Award Description</b> This project will allow the PI to continue to establish fundamental theories for various nonautonomous and random differential, paying special attention to the effects of the time/space dependence and randomness on the dynamics of the underlying problems and to the applications of the new concepts and theories to the relevant problems in applied science. Among the existing techniques and theories in literature to be employed in the project are skew-product (semi-) flows, (random) fixed point theorems, ergodic theorems, invariant measures, invariant manifolds, and exponential dichotomies.	

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**Project Information**

<b>Project Name or Project/ Program Title</b>	Dynamical Aspects in Nonautonomous and Random Differential Equations and Applications	<b>Activity Codes (NAICS or NTEE-NPC) (up to 10)</b>
<b>Quarterly Activities/ Project Description</b>	Sixteen research papers related to the project have been accomplished to date (the last one was accomplished during the current quarter (07/01//2011-09/30/2011). The last publication is entitled: Janusz Mierczynski and Wenxian Shen, Principal Lyapunov Exponents and Principal Floquet Spaces of Positive Random Dynamical Systems. I. General Theory, submitted. In the next quarter, the PI together with her collaborators will start to investigate some new problems related to the project.	<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>	Completed 50% or more	
<b>Total Federal Amount ARRA Funds Received/ Invoiced</b>	160756.35	
<b>Number of Jobs</b>	0.97	
<b>Description of Jobs Created</b>	Faculty and Graduate Assistants	
<b>Total Federal Amount of ARRA Expenditure</b>	161761.01	
<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** 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 10:22 PM  
**Last Updated By** Cindy Selman  
**Last Updated On** 10/10/2011 08:52 AM