

Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	DE-FG02-00ER54577	066470972	2010 / 3	No

Award Recipient Information

Recipient DUNS Number 066470972	Recipient Address 1 107 SAMFORD HALL
Recipient Account Number 219051	Recipient Address 2
Recipient Congressional District 02	Recipient City AUBURN
Parent DUNS Number 066470972	Recipient State AL
Recipient Type 2U.95.G6.M8.OH.VW	Recipient ZIP Code + 4 368490001
Recipient Legal Name AUBURN UNIVERSITY	Recipient Country USA
Recipient DBA Name	

Project / Award Information

Funding Agency Code 8900	Total Number of Sub Awards less than \$25,000/award 0
Awarding Agency Code 8900	Total Amount Sub Awards less than \$25,000/award 0.00
Program Source (TAS) Code 89-0227	Total Number of Sub Awards to 0 Individuals
Sub Account Number for Program Source	Total Amount of Sub Awards to 0.00 Individuals
CFDA Number 81.049	Total Number of Payments to 31 Vendors less than \$25,000/award
Amount of Award 140000.00	Total Amount of Payments to 44972.36 Vendors less than \$25,000/award
Award Date 07/19/2010	
Award Description 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

Project Name or Project/ Program Title	Quarterly Activities/ Project Description	Activity Codes (NAICS or NTEE-NPC) (up to 10)
Multi-scale investigation of sheared flows in magnetized plasmas	<p>To date approximately over 70% of the total funding has been spent or encumbered. These funds have been used in two main areas:</p> <p>a) Providing critical hardware support for the DOE-supported Auburn Linear Experiment for Instabilities Studies (ALEXIS). In particular, we have made upgrades to the vacuum system and control system of the ALEXIS device. And, we have used funds to improve the performance of an argon-ion / dye laser system used for laser induced fluorescence (LIF) measurements. This is a critical diagnostic system that is central to the doctoral research of two current Ph.D. students and likely many more in the following years.</p> <p>b) Providing the funding to support the purchase of a tunable diode-based laser system for LIF studies. This new hardware represents the state-of-the-art in tunable laser diode systems. It has the potential to provide higher output power and more stability than the current dye laser system. Though tuneable, it has a smaller bandwidth than the dye laser system, therefore both systems are complementary. Delivery and testing of the new system are expected in late Fall, 2010 which will allow us to complete this project shortly thereafter.</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	Less than 50% completed	

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Total Federal Amount ARRA Funds Received/ Invoiced	45535.34
Number of Jobs	0.00
Description of Jobs Created	None
Total Federal Amount of ARRA Expenditure	45839.64
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 Physics
Address 2	208 Allison 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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