

| Report Information |              |            |                         |              |
|--------------------|--------------|------------|-------------------------|--------------|
| Award Type         | Award Number | Prime DUNS | Calendar Year / Quarter | Final Report |
| Grant              | 0905818      | 066470972  | 2010 / 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.95.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> 1      |
| <b>Amount of Award</b> 116653.00  | <b>Total Amount of Payments to Vendors less than \$25,000/award</b> 214.70 |
| <b>Award Date</b> 08/17/2009  |  |
| <b>Award Description</b> 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. |  |

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**Project Information**

| Project Name or Project/<br>Program Title                 | Topical Solutions   | Activity Codes (NAICS or NTEE-NPC) (up to 10)   |
|---|---|---|
| <b>Quarterly Activities/ Project Description</b>          | <p>The PI continues her research in topology, geometry and dynamics.</p> <p>The PI will continue working on preparing publications. The PI gave three plenary talks, three special session talks, and two colloquium talks this summer. The new research material should result in three publications.</p> <p>The PI is currently supervising one Master's student.</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> |
| <b>Project Status</b>                                     | Completed 50% or more   |   |
| <b>Total Federal Amount ARRA Funds Received/ Invoiced</b> | 52212.51  |   |
| <b>Number of Jobs</b>                                     | 0.00  |   |
| <b>Description of Jobs Created</b>                        | no jobs charged against stimulus this quarter   |   |
| <b>Total Federal Amount of ARRA Expenditure</b>           | 64734.03  |   |
| <b>Total Federal ARRA Infrastructure Expenditure</b>      | 0.00  |   |
| <b>Infrastructure Purpose and Rationale</b>               |   |   |

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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**

|                               |  |
|-------------------------------|--|
| <b>Address 1</b>              | Department of Mathematics and Statistics |
| <b>Address 2</b>              | 221 Parker Hall                          |
| <b>City</b>                   | Auburn University                        |
| <b>Country Code</b>           | US                                       |
| <b>State</b>                  | AL                                       |
| <b>ZIP Code + 4</b>           | 36849 - 0001                             |
| <b>Congressional District</b> | 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**

|                        |                     |
|------------------------|---------------------|
| <b>Created By</b>      | Cindy Selman        |
| <b>Date Created</b>    | 10/06/2010 04:37 PM |
| <b>Last Updated By</b> | Cindy Selman        |
| <b>Last Updated On</b> | 10/06/2010 04:37 PM |