# Project Administration Data Sheet

## Project Director
Dr. Ward O. Winer

## Sponsor
Emory University

## Agreement No.
Agreement dated 5/8/87

## Award Period
From 1/1/87 To 10/31/87 (Performance) 12/15/87

## Contract Value
Contract Value: $13,780
Funded: $13,780

## Cost Sharing
Cost Sharing No./Center No.: E-25-341
Cost Sharing: $3,604

## Title
Wear of Polysulfone

## Administrative Data

<table>
<thead>
<tr>
<th>OCA Contact</th>
<th>Earnestine P. Smith</th>
<th>x4-4820</th>
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1) Sponsor Technical Contact:
Dr. Myron Spector
Department of Orthopaedics
Emory School of Medicine
402 Glenn Bldg.
Atlanta, GA 30318
(404) 589-3607

Military Security Classification: N/A
(or) Company/Industrial Proprietary: N/A

## Restrictions
See Attached N/A Supplemental Information Sheet for Additional Requirements.

Travel: Foreign travel must have prior approval — Contact OCA in each case. Domestic travel requires sponsor approval where total will exceed greater of $500 or 125% of approved proposal budget category.

Equipment: Title vests with None Proposed.

## Comments:

## Copies To:

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<tr>
<th>Project Director</th>
<th>Research Administrative Network</th>
<th>Research Communications</th>
<th>Procurement/GTRI Supply Services</th>
<th>Accounting</th>
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## Sponsor's I.D. No.
02.400.012.87.002
SPONSORED PROJECT TERMINATION/CLOSEOUT SHEET

Date: December 8, 1987

Project No. E-25-672

Includes Subproject No.(s) N/A

Project Director(s) W. O. Winer

Sponsor Emory University

Title Wear of Polysulfone

Effective Completion Date: 10/31/87 (Performance) 12/15/87 (Reports)

Grant/Contract Closeout Actions Remaining:

- [ ] None
- [X] Final Invoice or Final Fiscal Report
- [ ] Closing Documents
- [ ] Final Report of Inventions
- [ ] Govt. Property Inventory & Related Certificate
- [ ] Classified Material Certificate
- [ ] Other

Continues Project No. ________________________________ Continued by Project No. ________________________________

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Research Communications (2)
Project File
Other

DUANE HUTCHISON
ANGELA DUBOSE
RUSSELL EMBRY

Duane Hutchison
Angela DuBose
Russ Embry

FORM OCA 89.285
Six Station Test Rig for
Wear of Polysulfone

Final Report to
Emory University

October 1987
Scott Bair

A wear tester with six pairs of test elements was designed and constructed in the Georgia Tech Tribology and Rheology Laboratory to the specifications of Emory University School of Medicine, Department of Orthopaedics. The test configuration is that of a sliding pin against a flat surface. The pins are stationary and are retained in a collet. The flats oscillate with a total stroke of 2 mm at a frequency of 0.9 Hz. Load is applied pneumatically. Initial tests of Ti-6Al-4V pins against bone indicated the need for a hemispherically tipped pin to eliminate machining of the bone. In addition, for high friction coefficients (> 0.2) it will be necessary to reduce the number of active stations. The test rig was received by Dr. Myron Spector on October 28, 1987 at the Georgia Tech Tribology & Rheology Laboratory.