

PROJECT ADMINISTRATION DATA SHEET

ORIGINAL



REVISION NO. _____

Project No. E-25-648

GTRI/XXX

DATE 10 / 2 / 84Project Director: Ward WinerSchool/Dept. XXX

ME

Sponsor: Dept. of the Navy Office of Naval Research800 North Quincy Street Arlington, VA 22217Type Agreement: Grant No. N00014-84-G-0145Award Period: From 9/1/84 To 8/31/85 (Performance) 10/31/85 (Reports)

Sponsor Amount:

This ChangeTotal to DateEstimated: \$ 84,000\$ 84,000Funded: \$ 84,000\$ 84,000Cost Sharing Amount: \$ N/A

Cost Sharing No: _____

Title: High Temperature Thermal Phenomena in TribologyADMINISTRATIVE DATA

OCA Contact

Dennis Farmerx4820

1) Sponsor Technical Contact:

2) Sponsor Admin/Contractual Matters:

* Head Mechanics DivisionTom BryantOffice of Naval ResearchOffice of Naval Research800 North Quincy StreetResident RepresentativeArlington, VA 22217206 O'Keefe BuildingGeorgia Institute of TechnologyAtlanta, GA 30332 (404) 881-4374

Defense Priority Rating: _____

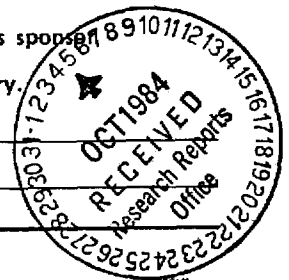
Military Security Classification: _____

(or) Company/Industrial Proprietary: _____

RESTRICTIONSSee Attached Gov't

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 GTRCCOMMENTS:

Cost Participation Requirements are fulfilled through the use of the following items purchased from non-DoD funds: Scanning electron microscope, Digital storage, scope, Honeywell instrumentation tape recording system, and a micro-computer system. Also included in cost participation is the use of three tribo-testers constructed on various contracts including NASA, DoD, and Industry.

COPIES TO:

Sponsor ID #02.104.001.84.011

Project Director
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Research Communications (2)

GTRI
Library
Project File
Other A. Jones

SPONSORED PROJECT TERMINATION/CLOSEOUT SHEETDate 5/22/86Project No. E-25-648School/Lab MEIncludes Subproject No.(s) N/AProject Director(s) Ward WinerGTRC / ~~XXX~~Sponsor Department of the Navy Office of Naval Research 800 N. Quincy St. Arlington, VA 22217Title High Temperature Thermal Phenomena in TribologyEffective Completion Date: 8/31/85 (Performance) 10/31/85 (Reports)

Grant/Contract Closeout Actions Remaining:

☐ None☒ Final Invoice or Final Fiscal Report☐ Closing Documents☒ Final Report of Inventions Patent Questionnaire sent to P.I.☒ Govt. Property Inventory & Related Certificate☐ Classified Material Certificate☐ Other _____

Continues Project No. _____

Continued by Project No. _____

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Other Jones, Embry

FINAL REPORT

DOD-URIP

Grant No. N00014-84-G-0145

Project Director: Ward O. Winer

Date: May 12, 1986

I. Items Acquired

The following is a list of equipment purchased on this grant including manufacturer and cost. Following the list is an explanation of changes from the original proposal.

- a. Digital Image Processor
Model DS-50 with A/D kit, 12 bit memory
and IEEE interface card.
Quantex Corporation
\$17,000.00
- b. Personal Computer
Model 5150176, with expanded
memory, Math co-processor, color monitor
IBM Corporation and Quadram
\$3,107.40
- c. Digital Plotter, 11 x 17 inch, four color,
16K buffer, IEEE 488 interface, and 100 x
time base adjustment
Gould, Inc.
\$2,320.00
- d. Fiberoptics Position Sensor
Fotonic Sensor Model KD-45 with KD-P-032R Probe, and
KD-CXX Cartridge
MTI Corporation
\$2,425.00
- e. Surface Profilometer, stylus type with control unit,
vibration isolation table and LV 50 traversing unit, and
TKE 100 skid pickup
Valmet Incorporated
\$47,835.00
- f. Accessories for surface profilometer (item c above),
including FHZ holder for skidless pickup
Skidless pickup TKL-100
Rotary Drive Unit RV150S
Valmet Incorporated
\$9,825.00

II. Changes from Proposal

The proposal as modified in a letter of June 8, 1984 to Dr. W. A. Ruff, ONR covered two areas of expenditure. One was for components to accompany an infrared scanning system (\$37,300) of which the basic scanner was purchased on a grant from the NSF and the second was for a surface profilometer system (\$46,700). Shortly after this grant was received \$10,000 was made available from other sources to purchase components for the infrared system. This permitted additional components to be purchased on this grant for the surface profilometer system. Items a-d above relate to the infrared system and items e & f relate to the surface profilometer system.

III. Use of the Equipment

The equipment purchased on this grant is being utilized in both DOD and non-DOD funded research. The equipment was a major contributing factor in permitting us to undertake a program studying the fundamentals of high temperature solid lubrication of ceramics for DARPA as a subcontractor to Hughes Aircraft.

The equipment is also being used on a DOE-ECUT program to study the thermal aspects of wear of ceramics. This program is intended to develop basic information that will be useful in the development of the minimum cooled diesel engine which is also of interest to DOD. Finally, the equipment is also used on a basic studies program into surface temperature in tribological systems under a grant for the NSF.