Project #: E-24-T01
Center #: 10/24-6-R8790-0A0
Contract#: CR-4728-320430
Prime #: DUE-9554688
Subprojects ?: N
Main project #:
Project unit: ISYE
Project director(s): THUESEN G J

Sponsor/division names: VIRGINIA TECH / BLACKSBURG, VA
Sponsor/division codes: 400 / 078

Award period: 960101 to 961231 (performance) 970331 (reports)

Sponsor amount
Contract value 15,681.00
Funded 15,681.00
New this change Total to date
Cost sharing amount 0.00

Title: THE ECONOMIC PRINCIPLES OF ENGINEERING DESIGN (A WORKSHOP)

PROJECT ADMINISTRATION DATA

OCA contact: Ina R. Lashley 894-4820
Sponsor technical contact
DR. WILLIAM G. SULLIVAN (540)231-6659
VIRGINIA POLYTECHNIC INSTITUTE INDUSTRIAL & SYSTEMS ENGINEERING 212B HANCOCK HALL BLACKSBURG, VA 24061-0118

Security class (U,C,S,TS): U
Defense priority rating : NA
Equipment title vests with: Sponsor
NONE PROPOSED.
Administrative comments -
INITIATION OF SUBGRANT UNDER NSF PRIME.
# NOTICE OF PROJECT CLOSEOUT

**Closeout Notice Date**: 01/02/97

**Project No.**: E-24-T01

**Center No.**: 10/24-6-R8790-0A0

**Project Director**: THUESEN G J

**School/Lab**: ISYE

**Sponsor**: VIRGINIA TECH/BLACKSBURG, VA

**Contract/Grant No.**: CR-4728-320430

**Contract Entity**: GTRC

**Prime Contract No.**: DUE-9554688

**Title**: THE ECONOMIC PRINCIPLES OF ENGINEERING DESIGN (A WORKSHOP)

**Effective Completion Date**: 961231 (Performance) 970331 (Reports)

## Closeout Actions Required:

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<tr>
<th>Action</th>
<th>Y/N</th>
<th>Date Submitted</th>
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<tr>
<td>Final Invoice or Copy of Final Invoice</td>
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<tr>
<td>Final Report of Inventions and/or Subcontracts</td>
<td>N</td>
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<td>Government Property Inventory &amp; Related Certificate</td>
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<td>Classified Material Certificate</td>
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<td>Release and Assignment</td>
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<td>Other</td>
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**Comments**: ____________________________________________________________

**Subproject Under Main Project No.**

**Continues Project No.**

**Distribution Required:**

- Project Director: Y
- Administrative Network Representative: Y
- GTRI Accounting/Grants and Contracts: Y
- Procurement/Supply Services: Y
- Research Property Management: Y
- Research Security Services: N
- Reports Coordinator (DCA): Y
- GTRC: Y
- Project File: Y
- Other: N

**Distribution**: _________________________________________________________
FINAL REPORT

NSF Sponsored Workshops
DUE-9554688
THE ECONOMIC PRINCIPLES OF ENGINEERING DESIGN
GEORGIA INSTITUTE OF TECHNOLOGY
(SUBCONTRACT E-24-T01)

Dr. Gerald J. Thuesen

I worked closely with Dr. William Sullivan, the Project PI, over a 6 month period in the organization and management of this project. Activities included the consideration of the location and timing of the two workshops developed for this project. We decided to offer workshops prior to two national meetings that would attract engineering educators from a variety of disciplines. The first workshop was held June 20-22, 1996 in Washington DC, preceeding the American Society for Engineering Education (ASEE) annual meeting. The second workshop was held in Salt Lake City, Utah, November 3-5, 1996 prior to the Frontiers in Education (FIE) Conference. Both meetings attract large numbers of engineering educators interested in improving the teaching/learning process. The attendance of over 20 participants at each site was due in part to the selection of these sites.

My second responsibility was to prepare and present a first day lecture at these workshops. This presentation included a discussion of the NSF sponsored project "The Integration of Economic Principles with Design in the Engineering Science Component of the of the Undergraduate Curriculum". It was this project that generated the many ideas and materials that are the basis for these workshops. As Principle Investigator for this 5 year project (Due -9155917), I was able to provide workshop participants insight regarding undertaking this type of teaching/learning research. I worked with Dr. James Luxhoj in the preparation of one set of handout notes that included lecture supplements, problems, and software documentation that accompany the teaching of the new engineering science courses.

The third activity involved working with the workshop participants in teaching them how to utilize various supplemental software. We gave demonstrations and we allowed the participants to run the programs on computers at the workshop. Thus, we were involved in all three days of each of the workshops.