PROJECT ADMINISTRATION DATA SHEET

Object No. E-24-630  

Object Director: Dr. J. J. Bartholdi III  

Sponsor: National Science Foundation; Washington, D.C. 20550

Grant Agreement: Grant No. ECS-8026080

Award Period: From 2/15/81 To 7/31/82* (Performance)  

Sponsor Amount: $4,651  

Awards Sharing: $8,139 (E-24-346)  

Title: Staffing Problems and Symmetric Interger Programs

MINISTRATIVE DATA

OCA CONTACT  
Duane Hutchison  

Sponsor Technical Contact: Mr. Abraham H. Haddad, NSF Program Officer; System Theory & Operations Research; Division of Electrical, Computer, and Systems Engineering; Directorate For Engineering and Applied Science; NSF; Washington, D.C. 20550; 202/357-9618

Sponsor Admin./Contractual Contact: Mr. Hugh L. Lyon, NSF Grants Official: Section II, AAEO/EAS Branch; Division of Grants and Contracts; Directorate for Administration; National Science Foundation; Washington, D.C. 20550; 202/357-9602

Reports: See Deliverable Schedule  

Security Classification: None

Deployment: Title vests with GIT

RESTRICTIONS

Use Attached NSF 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 GIT

COMMENTS:  
* Includes the usual six (6) month unfunded flexibility period.

DEPIES TO

Administrative Coordinator  
Research Property Management

Sponsor Technical Contact: Mr. Abraham H. Haddad, NSF Program Officer; System Theory & Operations Research; Division of Electrical, Computer, and Systems Engineering; Directorate For Engineering and Applied Science; NSF; Washington, D.C. 20550; 202/357-9618

Sponsor Admin./Contractual Contact: Mr. Hugh L. Lyon, NSF Grants Official: Section II, AAEO/EAS Branch; Division of Grants and Contracts; Directorate for Administration; National Science Foundation; Washington, D.C. 20550; 202/357-9602

Reports: See Deliverable Schedule  

Security Classification: None

Deployment: Title vests with GIT

COMMENTS:  
* Includes the usual six (6) month unfunded flexibility period.
SPONSORED PROJECT TERMINATION SHEET

Date: June 9, 1983

Project Title: Staffing Problems and Symmetric Integer Programs
Project No: E-24-630
Project Director: Dr. J. J. Bartholdi III
Sponsor: National Science Foundation

Effective Termination Date: 7-31-82
Clearance of Accounting Charges: 7-31-82

Grant/Contract Closeout Actions Remaining:

- [ ] Final Invoice and Closing Documents
- [ ] Final Project Report
- [ ] Final Report of Inventions
- [x] Govt. Property Inventory & Related Certificate
- [ ] Classified Material Certificate
- [ ] Other

Assigned to: Industrial Systems Engineering (School/Laboratory)

COPIES TO:
- Administrative Coordinator
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- Research Property Management
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- Accounting
- Legal Services (OCA)
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- Library
- EES Public Relations (2)
- Computer Input
- Project File
- Other

FORM OCA 10-781
We studied a wide class of periodic scheduling problems. They were shown to be "certifiably difficult" (in a formal sense), which justifies heuristic, non-optimal solution techniques. Accordingly we developed an efficient (polynomial time) solution algorithm that exploits the periodic symmetry of this class of problems.

Some powerful new ideas for integer programming were developed, including the exploitation of symmetry and non-trivial but quick round-off schemes.
Publications
