Project Title: Teacher Training for Curriculum Enrichment Procedures to be used with Potential Minority Engineering Students in Atlanta-Area High Schools

Project No: E-15-622

Project Director: Ms. Carolyn C. Chestnutt

Sponsor: The Research Foundation of State University of New York; Long Island, N.Y. 11794


Type Agreement: Sub-contract Agreement Account No. 431-5075-C (under Sloan Foundation Contract No. 379-070RF)

Amount: $8,000

Reports Required: Final Report

Sponsor Contact Person(s):

**Technical Matters**

Dr. John G. Truxal
NCCCD Project Director
State University of New York
at Stony Brook
Long Island, N.Y. 11794

**Contractual Matters**

Ms. Elizabeth Pagan
Purchasing Department
Finance & Management
State University of New York
at Stony Brook
Long Island, N.Y. 11794
(516) 246-5144

Defense Priority Rating: None

Assigned to: Office of the Dean of Engineering (School/Laboratory)

**COPIES TO:**

- Project Director
- Division Chief (EES)
- School/Laboratory Director
- Dean/Director—EES
- Accounting Office
- Procurement Office
- Security Coordinator (OCA)
- Reports Coordinator (OCA)
- Library, Technical Reports Section
- EES Information Office
- EES Reports & Procedures
- Project File (OCA)
- Project Code (GTRI)
- Other: OCA Research Property Coordinator
GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF CONTRACT ADMINISTRATION

SPONSORED PROJECT TERMINATION

Date: January 11, 1980

Project Title: Teacher Training For Curriculum Enrichment Procedures to be used with Potential Minority Engineering Students in Atlanta-Area High Schools

Project No: E-15-622

Project Director: Ms. Carolyn C. Chestnutt

Sponsor: The Research Foundation of State University of New York; Long Island, N.Y. 11794

Effective Termination Date: 6/23/79

Clearance of Accounting Charges: 6/23/79

Grant/Contract Closeout Actions Remaining:

- Final Invoice and GTRI to handle
- Final Fiscal Report
- Final Report of Inventions
- Govt. Property Inventory & Related Certificate
- Classified Material Certificate
- Other

Office of the Dean of Engineering
Assigned to: (School/Laboratory)

COPIES TO:
- Project Director
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CA-4 (1/79)
"Teacher Training For Curriculum Enrichment Procedures  
To Be Used With Potential Minority Engineering Students  
In Atlanta-Area High Schools"

Final Report

Thirty-seven teachers representing 11 high schools from the Atlanta Public Schools attended the SECME Summer Institute held at the Georgia Institute of Technology, June 13 - 23, 1979. The teachers participated in all classes and activities.

The grant was expanded in the following manner:

- Tuition: $2,600
- Registration: 1,900
- Materials & Supplies: 1,500
- Travel: 1,000
- Total: $8,000

Enclosed is a program for the Institute.
Program
Third Annual Summer Institute
Southeastern Consortium for Minorities in Engineering
Georgia Institute of Technology
Georgia State University
Atlanta, Georgia
June 13-23, 1979
Third Annual Summer Institute

Sponsored by

The Southeastern Consortium for Minorities in Engineering

F.W. Schutz, Jr., Codirector
Associate Dean of Engineering for Guidance
Georgia Institute of Technology

Hiram Johnston, Codirector
Chairman, Department of Curriculum and Instruction
Georgia State University
WEDNESDAY, JUNE 13, 1979

1:00 p.m. - 4 p.m.  Registration  Atlanta Townehouse

5:30 p.m. - 6:30 p.m.  Reception for SECME participants & staff  
Home of Dr. and Mrs. Joseph M. Pettit  
President, Georgia Institute of Technology

7:00 p.m. - 9:30 p.m.  Banquet  Atlanta Townehouse  
Master of Ceremonies  
F.W. Schutz, Jr.  
SECME Board Member

Welcome  
Vernon D. Crawford  
Vice President for Academic Affairs  
Georgia Institute of Technology

Introduction of Consortium Institution  
Representatives and SECME staff  
Z.W. Dybczak  
Dean of Engineering, Tuskegee Institute  
Chairman, SECME Board of Directors

Introduction of Guests  
Hiram Johnston  
Georgia State University

Introduction of Speaker  
W.E. Lear  
Dean of Engineering  
University of Alabama

Keynote Address  
David Ford, Manager  
Industrial Control Development  
Allen-Bradley Company

All daytime sessions are in the Space Science & Technology Building on the Georgia Tech campus unless otherwise indicated.

All evening sessions are at the Atlanta Townehouse unless otherwise indicated.
THURSDAY, JUNE 14, 1979

Theme: The Why & What of SECME

8:30 a.m. - 10:15 a.m.  Moderator: Z.W. Dybczak

"Minorities in Engineering - A Historical Overview"
W.E. Lear, Dean of Engineering
University of Alabama

"The Successful Pre-College Program"
Melvin Thompson, Executive Director
Committee on Minorities in Engineering
National Research Council

"SECME - Who Needs It?"
Carolyn C. Chesnutt, Executive Director
SECME

10:15 a.m. - 10:45 a.m.  Break

10:45 a.m. - 12 noon  "Encounters of an E-Kind"
JuniorEngineeringTechnicalSociety(JETS)
Douglass High School, Atlanta

11:00 a.m. - 12 noon  "Meeting Human Need - The Essence of Engineering"
George Sowers, Professor of Civil Engineering
Georgia Institute of Technology

12:15 p.m. - 1:15 p.m.  Lunch  Student Center Cafeteria

1:30 p.m. - 2:45 p.m.  Moderator: Hiram Johnston

"Curriculum Can Turn on Students"
E.J. Piel, Executive Director
National Coordinating Center for Curriculum Development

3:00 p.m. - 4:30 p.m.  Curriculum Work Groups

4:30 p.m.  Break

7:00 p.m. - 9:00 p.m.  Film Festival
Walter Robinson, Engineer
Southern Bell
FRIDAY, JUNE 15, 1979

Theme: Solving Problems

8:30 a.m. - 9:30 a.m.  Moderator: F.W. Schutz, Jr.

"MARTA - An Overview of the Largest Engineering Project in the Southeast"
Manuel Padron, Director of Planning & Marketing
Metropolitan Atlanta Rapid Transit Authority

9:30 a.m. - 10:30 a.m.  Moderator: Anne Rowe
Engineering Faculty Coordinator
Florida Institute of Technology

Panel Discussion:
"Becoming an Engineer - from a Minority Viewpoint"
Leonard Thompson
Buckeye Cellulose Corporation, Memphis
Susan Kane
Environmental Protection Division
State of Georgia, Atlanta
Ramona Jones
Southern Bell, Atlanta
B.W. Harrington, Jr.
Harrington, George & Dunn, Atlanta
Miguel Osores
Tennessee Valley Authority, Knoxville
Janet Harrison
DuPont, Savannah River Plant, Aiken, SC
Luisa Dennstedt
Union Carbide, Texas City, Texas

10:30 a.m. - 11:00 a.m.  Break

11:00 a.m. - 12 noon  "Just What Do Engineers Do?"
Small group discussions with engineers

12:15 p.m. - 1:00 p.m.  Lunch  Student Center Cafeteria

1:15 p.m. - 2:30 p.m.  Moderator: Ed Lucy, Science Education
Georgia State University

"Problem Solving is What Life is All About"
Project Development

2:30 p.m. - 4:30 p.m.  Special Interests  (Meeting Places to be announced)
   I. Calculators in the Classroom
   II. Clean Air Car,
       Donald Covault, Professor CE
   III. Solar Energy Slides & Tour,
       J.R. Williams, Georgia Tech
   IV. Energy Simulation,
       Henry Hagedoorn, University of Central Florida
   V. Toy Car Competition,
       John Freeman, North Carolina State University

4:30 p.m.  Break
SATURDAY, JUNE 16, 1979

10:00 a.m. - 12 noon  MARTA Tour - Group I  Meet in Townehouse Lobby
2:00 p.m. - 4:00 p.m.  MARTA Tour - Group II  Meet in Townehouse Lobby

SUNDAY, JUNE 17, 1979

Tour of Atlanta
Six Flags
6:00 p.m. - 9:00 p.m.  Display of minicomputers  Saxony A
                       Atlanta Townehouse

MONDAY, JUNE 18, 1979

Theme: Teacher/Counselor Role in Career Decisions

8:30 a.m. - 10:30 a.m.  Curriculum Groups
                        Engineering Faculty Meeting  Conference Room
                        Aerospace Engineering

10:30 a.m. - 11:00 a.m.  Break

11:00 a.m. - 12 noon  Moderator: Roscoe McNealy
                       Engineering Faculty Coordinator
                       University of Florida

"How Teachers Can Help - A Personal Story"
Robert Holmes, Engineer
Alabama Power Company

12:15 p.m. - 1:00 p.m.  Lunch  Student Center Cafeteria

1:15 p.m. - 2:45 p.m.  Moderator: Carolyn Myers, Instructor
                       Mechanical Engineering, Georgia Tech
                       Panel Discussion
                       Georgia Tech Engineering Students
                       Jorge Ciappi, ME
                       Evangeline Brown, EE
                       Phillip Gee, I5yE
                       Isaac Champagne, EE
                       Margie A. Smith, NE

3:00 p.m. - 4:30 p.m.  Curriculum Enrichment
                        Math visits Science and Language Arts
                        Science visits Language Arts and Math
                        Language Arts visits Math and Science

4:30 p.m.  Break

7:00 p.m. - 9:00 p.m.  Film Festival
TUESDAY, JUNE 19, 1979

Theme: Academic Preparation - The Key to Success

8:30 a.m. - 10:00 a.m.  Engineering Labs I  (Groups & Locations to be announced)
10:00 a.m. - 10:30 a.m.  Break
10:30 a.m. - 12 noon  Curriculum Groups  Engineering Faculty Meeting  Conference Room - AE
12:15 p.m. - 1:00 p.m.  Lunch  Student Center Cafeteria
1:15 p.m. - 2:30 p.m.  Project Development
2:45 p.m. - 4:30 p.m.  Curriculum Groups  Engineering Faculty Meeting  Conference Room - AE
4:30 p.m.  Break
7:00 p.m. - 8:00 p.m.  Moderator: Jake Halford  Engineering Faculty Coordinator  The Citadel
Enrichment through JETS  Howard Wakeland, Associate Dean of Engineering  Illinois Institute of Technology
8:00 p.m. - 9:00 p.m.  Informal Discussion on Club Activities
**WEDNESDAY, JUNE 20, 1979**

**Theme:** Developing Community Support

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>8:30 a.m. - 10:00 a.m.</td>
<td>Engineering Labs II</td>
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<tr>
<td>10:00 a.m. - 10:30 a.m.</td>
<td>Break</td>
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<tr>
<td>10:30 a.m. - 12 noon</td>
<td>Moderator: John Freeman&lt;br&gt;Engineering Faculty Coordinator&lt;br&gt;North Carolina State University</td>
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<td>&quot;Can Industry &amp; Schools Speak The Same Language?&quot;&lt;br&gt;Brooks Whitehurst, Governor's Staff&lt;br&gt;State of North Carolina</td>
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<td>&quot;Working with Community Groups&quot;&lt;br&gt;Ida Baker, Principal, Cape Coral High School</td>
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<td></td>
<td>&quot;Involving Parents&quot;&lt;br&gt;Herbert Lavendar, Principal, Aliceville High School</td>
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<td>12:15 p.m. - 1:00 p.m.</td>
<td>Lunch&lt;br&gt;Student Center Cafeteria</td>
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<tr>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>Curriculum Groups</td>
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<td>3:00 p.m. - 4:30 p.m.</td>
<td>Individual Project Development</td>
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<td>4:30 p.m.</td>
<td>Break</td>
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<td>7:00 p.m. - 9 p.m.</td>
<td>Film Festival</td>
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THURSDAY, JUNE 21

Theme: Developing Engineering Guidance

8:30 a.m. - 10:00 a.m.  Engineering Labs III
10:00 a.m. - 10:30 a.m.  Break
    Registration - Project Directors
10:30 a.m. - 12 noon  Panel Discussion of SECME Projects by Staff Members
    Teacher In-Service Programs
    Identifying Minority Students
    Enriching Curriculum
12:15 - 1:00 p.m.  Lunch  Student Center Cafeteria
1:15 p.m. - 4:30 p.m.  Project Directors' Meeting
1:15 p.m. - 2:00 p.m.  Moderator: F.W. Schutz, Jr.
    "The Importance of High School Guidance"
    F.W. Schutz, Jr., Associate Dean of Engineering
    Georgia Institute of Technology
2:00 p.m. - 2:45 p.m.  "The Routes to Engineering"
    Z. W. Dybczak, Dean of Engineering
    Tuskegee Institute
    Charles Meredith, Provost
    Atlanta University Center
3:00 p.m. - 3:45 p.m.  "Making It Financially in Engineering College"
    Nydia Gouraige, Director
    University Relations
    National Fund for Minority Engineering Students
    Bob James, Assistant Director
    Cooperative Education,
    Georgia Institute of Technology
3:45 p.m. - 4:30 p.m.  "The Job Outlook"
    Michael A. Donahue, Director of Placement
    Georgia Institute of Technology
    John Lucky
    Proctor & Gamble
4:30  Break
6:00 p.m. - 7:00 p.m.  Reception  Atlanta Townehouse
7:15 p.m.  Dinner Theatre  Student Center Ballroom

Wits End Players
FRIDAY, JUNE 22, 1979

Theme: Getting the Most Out of An Engineering Faculty Coordinator

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 a.m. - 8:30 a.m.</td>
<td>Engineering Faculty Coordinators' Breakfast</td>
</tr>
</tbody>
</table>
| 8:30 a.m. - 9:30 a.m. | "An Engineer Goes to High School"  
  Erwin A. Reinhard  
  Engineering Faculty Coordinator  
  The University of Alabama |
| 9:45 a.m. - 12 noon | Planning Sessions with Engineering Faculty Coordinators  
  Executive Committee Meeting  
  Conference Room, AE |
| 12:15 p.m. - 1:00 p.m. | Lunch  
  Participants: Student Center Cafeteria  
  Project Directors: Student Center, Rm 301  
  Executive Committee: Student Center, Rm 359 |
| 1:15 p.m. - 2:45 p.m. | Project Development |
| 3:00 p.m. - 4:30 p.m. | Curriculum Groups  
  Student Center |
| 4:30 p.m. | Break |
| 7:00 p.m. - 9:00 p.m. | Student Rap Session |

SATURDAY, JUNE 23, 1979

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 9:00 a.m. - 10:15 a.m. | Wrap-Up  
  Student Center Theatre  
  Complete Post-Test and Evaluation  
  Submit Plans for Utilization of Modules |
| 10:30 a.m. - 12 noon | Brunch  
  Fred E. Brown  
  Minority Engineering Program  
  University of Tennessee, Knoxville  
  Awarding of Certificates |
| 12 noon       | Adjourn |


Faculty and Staff

Edward Lucy, Associate Professor, Science Education, Georgia State University
Jack Downs, Professor, Mathematics Education, Georgia State University
Robert Probst, Associate Professor, English Education, Georgia State University
Willette Williams, Science Teacher, Denmark-Olar High School, Denmark, SC
Samuel Spearman, Science Teacher, Hillsborough Senior High School, Tampa, FL
Naomi Seifert, Science Teacher, Spartanburg High School, Spartanburg, SC
Jeff Given, Science Teacher, Glades Central High School, Belle Glades, FL
Peggy Martin, Mathematics Teacher, Gibbs High School, St. Petersburg, FL
Alice Doanes, Mathematics Teacher, C.L. Harper High School, Atlanta, GA
Rosemary Austin, English Teacher, B.C. Rain High School, Mobile, AL
Linnie McMillan, English Teacher, Fulton High School, Knoxville, TN
Katherine M. Hertzka, Program Specialist, Georgia Institute of Technology
Audie Jordan, Education Specialist, SECME
Brenda P. Witten, Summer Institute Coordinator, SECME
Carolyn C. Chesnutt, Executive Director, SECME

Engineering Faculty Coordinators Attending

John Kennedy, Auburn University, Auburn
Naim Kheir, The University of Alabama, Huntsville
Erwin A. Reinhard, The University of Alabama, Tuscaloosa
Shaik Jeelani, Tuskegee Institute, Tuskegee
Anne Rowe, Florida Institute of Technology, Melbourn
A. Henry Hagedoorn, University of Central Florida, Orlando
Roscoe J. McNealy, University of Florida, Gainesville
Henry Fraze, University of South Florida, Tampa
Jude T. Sommerfeld, Georgia Institute of Technology, Atlanta
William B. Hall, Mississippi State University, Starkville
John F. Freeman, Jr., North Carolina State University, Raleigh
Jake H. Halford, The Citadel, Charleston
Joseph Biedenbach, University of South Carolina, Columbia
John H. Forrester, University of Tennessee, Knoxville
Fred Terry, Christian Brothers College, Memphis
Roger Nolte, Memphis State University, Memphis