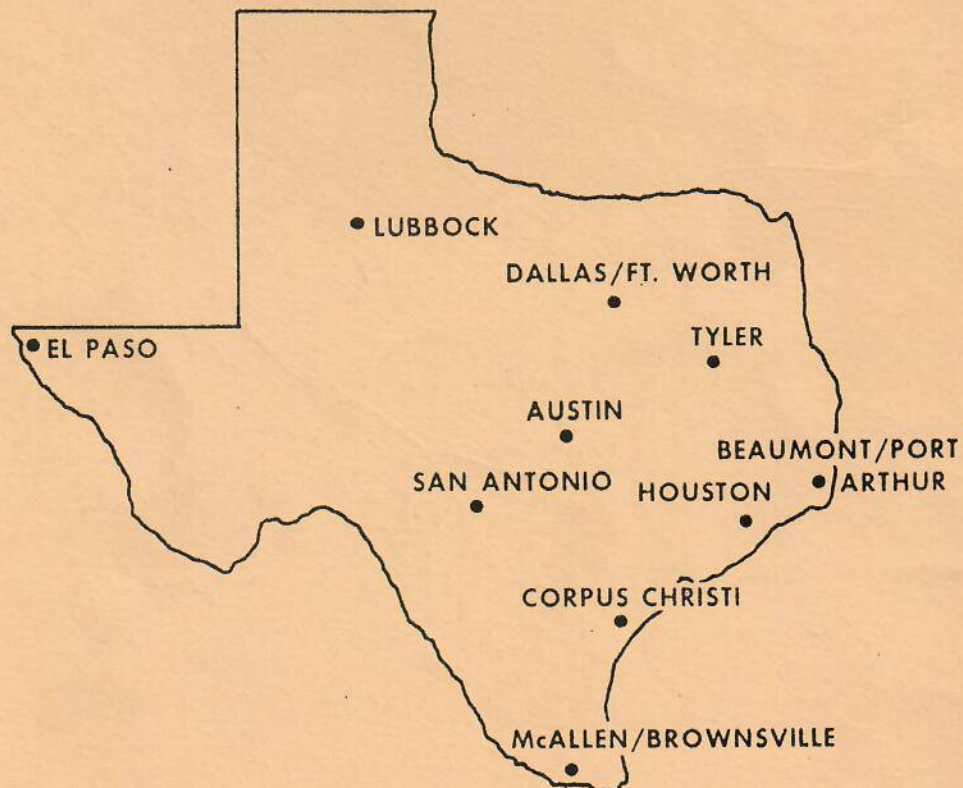


TEXAS ALLIANCE FOR MINORITIES IN ENGINEERING

ANNUAL REPORT 1976-77





TEXAS ALLIANCE FOR MINORITIES IN ENGINEERING, INC.

P.O. BOX 4572

AUSTIN, TEXAS 78765

(512) 471-5953

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August 16, 1977

OFFICERS

R. F. Tickner, Chairman
EXXON Company, USA

L. Marshall, President
Houston Independent
School District

P. M. Suarez, Vice President
IBM Corporation

R. L. Hansen, Treasurer
Dow Chemical, USA

J. S. Robottom, Secretary
The University of Texas
at Austin

Mr. R. F. Tickner
Chairman of the Board
TAME, Inc.
c/o Exxon Co. USA
Houston, Texas 77001

Dear Mr. Chairman:

I have the pleasure to submit to you the annual report of the corporation for its first year of existence.

We have accomplished a great deal with initially limited resources; we can look forward to increased effectiveness with the resources now available to us (which you have been so instrumental in obtaining).

This is an excellent opportunity to thank the entire board for its interest, insight, and dedication to the work of the corporation.

Sincerely,

J. S. Robottom
Executive Director

JSR/1r

Enclosure

I INTRODUCTION

TAME, Inc. was conceived by 100-odd participants at a two day seminar in Dallas, Texas in October, 1975, which met to consider the critical problem of increasing minority representation in engineering.

In January, 1976, the original board met in Houston, Texas and elected Mr. R. F. Tickner (Exxon) chairman, Mr. Lawrence Marshall (Houston ISD) president, Dr. R. Jan LeCroy (Dallas Community Colleges) vice president, Mr. R. L. Hansen (Dow Chemical) treasurer and Mr. J. S. Robottom (then with the Dallas Community Colleges) secretary and executive director. Subsequently, Dr. LeCroy and Dr. Philip S. Schmidt left the board and have been replaced by Dr. C. A. Rodenberger of Texas A & M University and Judge Rudy Esquivel of San Antonio.

The spring and summer of 1976 were devoted to analysis of the problem of attracting minority students into engineering and related technical professions in Texas. Mr. Pasquale Perillo of the Intercultural Development Research Association in San Antonio and a member of the TAME board provided the demographic study which identified ten regions in which local alliances could be organized for best effect. These locations are identified in the TAME brochure. (Enclosure A)

The board met in June, 1976, and made the decision to incorporate under the Texas Non-profit Corporation Law and to request a tax-exempt status from the IRS which was accordingly granted in September, 1976. The board also elected to hold the first of its ten organizational symposiums in the Rio Grande Valley on September 17-18 with Pan American University as host and co-sponsor. The agenda and invited participants

are given in Enclosure B. As a result of this symposium, the South Texas Alliance for Minorities in Engineering was created with Mr. Jesse Trevino of McAllen as chairman. (Enclosure C)

On December 10-11, 1976, the greater Houston area was organized as the Gulf Coast Alliance for Minorities in Engineering at a symposium co-hosted by Rice University, the University of Houston, the Houston ISD and TAME, Inc. GuCame was chaired initially by Mr. Thomas O. Hughes of Exxon Chemical Company and was succeeded upon his transfer to Chicago by Dr. Stanley G. Ebner of the University of Houston. (Enclosures D and E)

On February 18-19, 1977, the greater San Antonio area was organized with the San Antonio Alliance for Minorities in Engineering chaired by Dr. William R. Wakeland, Chairman of Engineering at Trinity University. (Enclosures F and G) At a meeting of the Board of Directors in San Antonio, Mr. Peter M. Suarez of IBM Corporation was elected vice president to replace Dr. LeCroy.

On April 15-16, 1977, the Austin area was organized as the Austin Alliance, chaired by Mr. G. D. Lawrence, Personnel Manager of the IBM plant in Austin. (Enclosures H and I)

II PROGRAM

The creation of regional alliances is but the first step in a mature, effective program to produce high school graduates equipped with the requisite math and science courses to make engineering a realistic career option. The students must also be informed and motivated toward technical careers and in some respects this problem is less tractable than the academic demands.

Each alliance is expected to survey its local resources and conditions and to adopt a plan designed to meet its individual needs.

In the Rio Grande Valley, for example, there is little industry and no college of engineering closer than Texas A & I in Kingsville. The area has perhaps the lowest per-capita income in the state, to further complicate matters. The chairman of the South Texas Alliance has accordingly worked to create a \$20 million student loan fund under Federal guarantees, to make money available to families which could otherwise never consider college for their children. A pre-school conference of industry and educators was convened in August, 1977, to establish methods for interaction between Valley industrial employees, Texas Southwest College, Texas A & I University, Pan American University and the thirty school districts in the Valley. An integrated program is expected to emerge in the Fall of 1977.

In Houston, conversely, there exists a major national concentration of technology: intensive industry, two excellent colleges of engineering and a large urban school district, heavily Black and keenly aware of its responsibility for technical education and preparation. Houston ISD has developed a nationally recognized prototype high school for engineer professions. This prototype, fully integrated racially, is located physically within an all Black high school on the north side of Houston.

It will be the work of the Gulf Coast Alliance to support the Houston ISD in bringing all of its junior and senior high schools up to the standards set by its prototype, though methodology will vary from location to location.

The situation in San Antonio is quite different as is the racial mix; there is heavy Federal impact from Army and Air Force bases, little industry and a low tax base. As in the Rio Grande Valley, the availability of engineering education is limited locally. There is little awareness among the school-age population of engineering as a career, hence little direction by public educators toward technology. The San Antonio Alliance is considering a plan whereby it, the San Antonio ISD and TAME, Inc. will request a planning grant from the Community Services Administration. A variant of Houston's High School for Engineering Professions appears to be a useful focus for initial work and local industry and local Federal installations are expected to provide substantial support.

All four of the existing alliances have certain programs in common. For the sake of brevity, we will describe the work of the Austin Alliance in some detail. (Enclosure J)

There are twenty junior and senior high schools in Austin. The industry members of the Austin Alliance have each adopted two or more of these schools in which minority enrollment is significant. The Austin Independent School District has encouraged a program in which minority engineers from these companies meet classes on a regular basis, become acquainted with minority students and their families through liaison with math and science teacher. A series of familiarization breakfast meetings are scheduled with all counselors, math and science teachers in the primarily minority schools. A program of summer employment in industry is already in effect for students identified by teachers as inclined toward technical careers.

The Austin Alliance is preparing media presentations to bring its message to the local minority populations and has scheduled meetings in the minority communities working through the Black Ministerial Alliance and local Chicano organizations.

III EXPECTATIONS

Symposiums are now scheduled and in the planning stages at Corpus Christi on September 23-24, 1977; Dallas, October 28-29, 1977; Beaumont/Triangle area, December 2-3, 1977; El Paso, early 1978; Fort Worth, March, 1978; and Texarkana, April, 1978. At that stage, ten local alliances will be in existence and functioning; the TAME, Inc. Board of Directors can then redirect its energies to assisting and coordinating these local efforts with the state's colleges of engineering and their financial aids offices where necessary.

The population of Texas is approximately 30% minority and TAME's ultimate goal is to see the number of minority engineering graduates in the state approach that same percentage of total graduates. The figures for 1976 show 2,244 engineering graduates from Texas colleges of engineering. Of these 207 (9%) were of minority origin. This, then, is the benchmark on which our progress will be computed from year to year. (Enclosure K)

IV FINANCES

During the period of this report, September 1, 1976 Through August 31, 1977, TAME, Inc. received contributions totalling \$40,378 from the following sources:

Balance of Dallas County Community Colleges District Funds	\$ 5,378
Exxon Company, U.S.A.	10,000
Dow Chemical, U.S.A.	5,000
IBM Corporation	8,500
General Electric Foundation	5,000
Texas Eastern Transmission Corporation	2,000
Tenneco	2,000
Conoco	1,000
Amoco	1,000
Houston Lighting & Power Company	500
	<u>\$40,378</u>

Expenditures during this period (exclusive of August, 1977) were as follows:

Salaries and Wages	\$ 9,189
Film Production	3,816
Conference Expenses	6,592
Printing and Manuals	1,711
Travel-Staff and Invited Participants	2,216
Miscellaneous	355
	<u>\$23,879</u>

Balance available

\$16,499

We were heartened to learn in July that the Alfred P. Sloan Foundation had awarded TAME, Inc. a grant of \$68,500 to be made available over a three-year period, commencing September 1, 1977. The budget committee of the board is analyzing income and expenditure items during this period in order to develop a sound funding plan for this period.

AGENDA--TAME MEETING
SEPT. 18, 1976 - PAN AMERICAN
UNIVERSITY

- 8:50 AM Welcome - Dr. Miguel Nevares, V.P. Pan American University
- 9:00 Keynote Address - Mr. E.J. Baca, Regional Commissioner, USOE
- 9:15 TAME, Its Origin and Goals - Mr. R. F. Tickner, EXXON Co. USA
- 9:30 Multi-media Presentation - Intro. by Dr. P.S. Schmidt, UT-Austin
- 9:45 Panel Discussion of Multi-media presentation
Dean Fred Benson, Texas A&M University
Mr. Robert Finnell, NRC Committee on Minorities
Mr. J.L. D'Acosta, GE Company
Mr. Jesse Trevino, Board Member, TAME, McAllen, TX
- 10:15 Coffee
- 10:30 Panel Discussion
"The Next Step Beyond Bilingual/Migrant Programs"
Dr. Jose Cardenas, IDRA
"Houston Independent School District's High School for
Engineering Professions"
Dr. Gonzalo Garza, Houston ISD
"Pre-Engineering Programs in Texas Community Colleges"
Dean Ernest Franke, Texas A&I University
"The National Fund for Minority Engineering Students"
Mr. Garvey Clark, Pres. NFMES
- 11:20 Break
- 12:00 Luncheon -- Dr. David Reyes-Guerra, Exec. Dir. ECPD
- 1:30 Workshops (3 - 4 @ 15 - 20 participants)
Discussion Leaders:
J.S. Robottom DCCCD, TAME Bd.
P.M. Suarez IBM, TAME Bd
L. Marshall Houston ISD, TAME Bd.
R.L. Hansen Dow Chemical, TAME Bd.
"How to Organize and Cooperate in a South Texas Alliance
for Minorities in Engineering"
- 2:15 Break
- 2:30 Report of Discussion Leaders to Plenary Session
- 3:00 Nomination of Members, South Texas Alliance for Minorities
in Engineering
- 3:15 Adjourn

SOUTH TEXAS
ALLIANCE FOR MINORITIES
IN ENGINEERING

Members

Mr. Jesse Trevino, Chairman	608 S. 10th St. McAllen, TX 78501 (512) 686-4335
Mr. Geronimo Garcia	Texas Highway Dept. 600 W. U.S. 83 Expwy Pharr, TX 78777
Mr. Wylie E. Drayton	International Paper Co. 1501 N. Closner Edinburg, TX 78539 (512) 383-3811
Mr. Arturo Molina	McAllen ISD 2000 N. 23rd St. McAllen, TX 78501 (512) 682-1514
Mr. Lester A. Youngman	Pan American University Edinburg, TX 78539 (512) 381-2781
Mr. Romulo Martinez	Pan American University Edinburg, TX 78539 (512) 381-2473
Mr. Albert Besteiro	Brownsville ISD 1102 E. Madison St. Brownsville, TX 78520 (512) 546-3101
Dr. Ruben Gallegos	Edinburg ISD P. O. Box 990 Edinburg, TX 78539 (512) 383-4951
Mr. Philip Rogers	Region I Educ. Service Center 1900 W. Schunior Edinburg, TX 78539 (512) 383-5611
Mr. Arturo Chapa	McAllen ISD 2000 N. 23rd Street McAllen, TX 78501 (512) 682-1514
Mrs. Celia Quintanilla	Harlingen ISD 1409 E. Harrison St. Harlingen, TX 78550 (512) 423-6060

Level D

A G E N D A

TEXAS ALLIANCE FOR MINORITIES IN ENGINEERING, INC. SEMINAR

Co-sponsored by the
Cullen College of Engineering
University of Houston

December 11, 1976

- 8:15 A.M. Continental Breakfast-Continuing Education Center, Hilton School of Hotel Management, University of Houston
- 8:45 A.M. Convene for Plenary Session
Welcome-Dean Abraham E. Dukler, Cullen College of Engineering and Mr. Lawrence Marshall, Associate Superintendent Houston Independent School District and President, TAME, Inc.
- 8:50 A.M. "The Origins and Objectives of TAME, Inc." Mr. Raymond F. Tickner, Exxon Company, USA, and Chairman of the Board, TAME, Inc.
- 9:00 A.M. Film, "Engineers-Doers and Dreamers." Introduced by Mr. John S. Robottom, College of Engineering, U.T.-Austin and Executive Director, TAME, Inc.
- 9:20 A.M. Panel Presentation. "The Engineering and Academic Resources of the Upper Gulf Coast. How to Maximize Them." A survey of organizations and institutions, their minority programs now in progress, their objectives, and problems of interaction.
Moderator: Dean Abraham E. Dukler, University of Houston
Panel: Dr. Harry A. Deans, Professor of Chem. Engr., Rice University
Dean Austin E. Greaux, College of Engr., Prairie Univ., A&M Univ.
Dr. C.A. Rodenberger, Asst. Dean, College of Engr., Texas A&M Univ.
Mr. John H. Cooper, Headmaster, Kincaid School
Mr. L.B. Wilby, Brown & Root, Inc., Chairman Technical Careers Committee, Engineers Council of Houston
- 10:15 A.M. Coffee
- 10:30 A.M. Panel Presentation. "The Role of Technology-based Industry in Minority Education-the Consumer's Perspective." Industry must interact with educators at all levels in order to increase the pool of minority engineering graduates. Industry's role is not always clear yet its needs are immediate. The panel will consider optimization of effort.
Moderator: Mr. Peter M. Suarez, IBM Corporation, Director, TAME, Inc.

Panel: Mr. Richard L. Hansen, Dow Chemical-USA,
Director, TAME, Inc.
Mr. Al Naumann, Lockheed Electronics, Inc.
Mr. William Walker, Tenneco, Inc.
Dr. , NASA Manned Space
Flight Center

- 11:20 A.M. NACME Slide Presentation. "A Good Place to Start"
Introduced by Mr. Melvin Thompson, Executive Director,
National Academy of Engineering Committee on Minorities
in Engineering.
- 11:30 A.M. Address, "But Where Is The Money Coming From"-Mr. Garvey
Clarke, President, National Fund for Minority Engineering
Students
- 12:00 Luncheon-Hilton School of Hotel Management
Principal Speaker-Dr. Percy A. Pierre, Dean School of
Engineering, Howard University, NAE Committee on Minorities
in Engineering; introduced by Dean Austin E. Greaux,
Prairie View A&M University
- 12:45 P.M. Announcement of membership, Gulf Coast Alliance for Minorities
in Engineering
- Adjourn

GULF COAST ALLIANCE FOR MINORITIES IN ENGINEERING MEMBERS

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256-6131

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Mr. Reynolds Delgado
Technical Careers Committee
Houston Lighting and Power Company
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Dr. Stanley G. Ebner
Dean of Technical Studies
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Sister Colleen Hennessey
Superintendent of Schools
Catholic Schools of Galveston - Houston
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Dr. W. I. Honeywell
Cullen Center of Engineering
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EEO Staff Coordinator
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Miss Rose K. Kane
Employment Manager
Tenneco Inc.
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3201 Wheeler Avenue
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Mr. F. D. Wesley
Principal
Booker T. Washington High School
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692-5947

Mr. James R. Zoller
E. I. DuPont de Nemours & Co., Inc.
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La Porte, Texas 77571
471-2771

TAME, INC.

Mr. Lawrence Marshall
Houston Independent School District
3830 Richmond Avenue
Houston, Texas 77027
623 - 5135

TEXAS ALLIANCE FOR MINORITIES IN ENGINEERING, INC.
 SAN ANTONIO SEMINAR
 FEBRUARY 19, 1977
 SAMS ATHLETIC CENTER
 TRINITY UNIVERSITY

Encl F

Co-sponsored by: San Antonio Independent School District
 Trinity University
 Intercultural Development Research Association

8:00 A.M. Continental Breakfast

8:45 A.M. Convene for Plenary Session
 Welcome: Mrs. Lila Cockrell, Mayor of San Antonio
 Dr. J. Norman Parmer, Vice-President for Academic Affairs,
 Trinity University
 "TAME, Inc. Its Origins and Goals" - Mr. R. F. Tickner,
 Exxon Co. - USA, Chairman of the Board, TAME, Inc.

8:50 A.M. NACME Slide Presentation "A Good Place to Start" Introduction
 by Mr. Robert A. Finnell, Deputy Director, National Academy
 of Engineering Committee on Minorities in Engineering,
 Washington D. C.

9:00 A.M. "Minorities in Engineering - A Historical Survey and Summary
 of Progress" - Mr. James L. D'Acosta, Program Manager, MBA and
 Affirmative Action Recruiting Programs, The General Electric
 Company, Crotonville, New York

9:15 A.M. Panel Presentation. "The Role of Technology-based Industry in
 Minority Education--the Consumer's Perspective." Industry
 must interact with educators at all levels in order to increase
 the pool of minority engineering graduates. Industry's role is
 not always clear yet its needs are immediate. The panel will
 consider optimization of effort.

Moderator: Mr. Richard L. Hansen	Manager, College Relations Dow Chemical - USA Director, TAME, Inc. Chief Engineer Southwestern Bell Telephone Co. Branch Office Manager IBM Corporation Vice President Southwest Research Institute Executive Assistant to the Commander Kelly Air Force Base
Panel:	
Mr. Thomas Davis	
Mr. Thomas Payne	
Mr. Lyle Donaldson	
Mr. Sam Madrid	

10:00 A.M. Question and Answer Period

10:15 A.M. Coffee

10:35 A.M. Panel Presentation: "The Engineering and Academic Resources
 of the Greater San Antonio Region - How to Maximize Them"

Moderator: Dr. William R. Wakeland	Chairman, Engineering Science Trinity University Director, Center for Applied Research and Technology U. T. - San Antonio
Panel:	
Dr. Charles Sorber	
Mr. George Ozuna	Board of Trustees San Antonio Union Junior District College Superintendent Crystal City ISD Assistant Superintendent San Antonio ISD
Mr. Victor Lopez	
Mr. Victor Rodriguez	

11:20 A.M. Question and Answer Period

11:30 A.M. "But Where is the Money Coming From?", Ms. Evelyn T. Cendan,
 Director of University Relations, National Fund for Minority
 Engineering Students, New York, New York

11:45 A.M. Break for Luncheon

12:00 Noon Luncheon, The Refectory, Trinity University, Principal Speaker,
 the Honorable R. C. Krueger, Congressman, 21st District of Texas
 Introduction by Dr. J. Parker Lamb, Associate Dean, College of
 Engineering, The University of Texas at Austin

12:45 P.M. Announcement of Membership - San Antonio Alliance for Minorities
 in Engineering

Adjourn

MEMBERSHIP
SAN ANTONIO ALLIANCE FOR
MINORITIES IN ENGINEERING

Dr. William R. Wakeland - Chairman
Chairman, Engineering Science
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715 Stadium Drive
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Dr. Charles A. Sorber
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and Technology
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Mr. Lyle Donaldson, Vice President
Southwest Research Institute
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Mr. Richard Moore, AIA
Richard Moore & Assoc.
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Mr. George Ozuna, Jr., P.E.
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Mr. Sam Madrid, P.E.
Office of the Commander
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Membership, SAAME, (cont.)

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San Antonio Air Logistics
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Mr. Harry R. Baker
Counselor
South San Antonio High School
2515 Navajo
San Antonio, TX 78224

(512) 924-9211 ext. 42

8:00 a.m.	CONTINENTAL BREAKFAST R. L. Moore Hall, Rm. 4.102	10:30 a.m.	COFFEE
8:40 a.m.	CONVENE FOR PLENARY SESSION WELCOME Mr. Jimmy Snell, Mayor Pro Tem of Austin Dr. J. Parker Lamb, Associate Dean, College of Engineering, UT-Austin Mr. R. F. Tickner, Exxon Co. - U.S.A. "TAME, Inc. - Its Origins and Goals"	11:00 a.m.	PANEL PRESENTATION - <i>The Engineering and Academic Resources of Austin and Central Texas</i> Moderator: Dr. Philip S. Schmidt, Associate Professor Department of Mechanical Engineering, UT-Austin Panel: Dr. James Archer, Area Dean Rio Grande Austin Community College Dr. Exalton A. Delco, Dean, Houston-Tillotson College Mr. S. A. Garza, P.E. Consulting Engineer Mr. Mauro Reyna, Assistant Superintendent, Austin Independent School District
8:50 a.m.	NACME SLIDE PRESENTATION. "A Good Place to Start" Introduction by Mr. Tom Musto, Director of Engineering, IBM Corporation, Austin	11:40 a.m.	QUESTION AND ANSWER PERIOD
9:15 a.m.	"BUT WHERE IS THE MONEY COMING FROM?" Mr. Garvey E. Clarke, President, National Fund for Minority Engineering Students, New York	11:45 a.m.	A HIGH SCHOOL FOR THE ENGINEERING PROFESSION Mr. Lawrence Marshall, Associate Superintendent, Houston ISD Ms. Mary Ann Roberts, Assistant Director of Mathematics Houston ISD
9:30 a.m.	PANEL PRESENTATION <i>Industry's Stake in Minority Engineering Education</i> Moderator: Mr. Douglas Lawrence IBM Corporation, Austin Panel: Mr. Rob Sanchez, Banking Systems Marketing Manager, Texas Instruments, Inc., Austin Mr. Hardy M. Caton, Vice President, Applied Systems, Tracor, Inc., Austin Mr. Charles Silva, Operations Manager, Motorola, Inc., Austin Mr. Thomas Thigpen, Project Engineer, IBM Corp., Austin Mr. Lorenzo F. Rodriguez, Coordinator of College Relations and Recruitment, ALCOA, Pittsburgh	12:00 p.m.	BREAK FOR LUNCH Villa Capri, 26th St. & I 35 Introduction of Speaker: Mr. Gustavo L. Garcia, President, Board of Trustees, Austin ISD Principal Speaker: Mr. Eduardo Pena, Jr., Director, Office of Compliance Programs, U.S. Equal Employment Opportunity Commission Presiding Mr. John S. Robottom, Executive Director, TAME, Inc.
10:15 a.m.	QUESTION AND ANSWER PERIOD		

MEMBERSHIP

AUSTIN ALLIANCE FOR
MINORITIES IN ENGINEERING

Mr. G. D. Lawrence, Chairman
Personnel Manager
IBM Corporation
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S. A. Garza Engineers, Inc.
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Dr. Reuben R. McDaniel, Jr.
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Dr. James K. Archer
Acting Area Dean, Rio Grande Campus
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Assistant Superintendent
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Dr. Leonardo de la Garza
Dean for Instructional Services
Austin Community College
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Mr. Hardy M. Caton
Vice President, Applied Systems
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Austin, TX 78721 Tel.(512)926-2800

Mr. Donald Cantler
Personnel Relations Manager
Westinghouse Electric Corporation
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Round Rock, TX 78664 Tel.(512)255-4141

Mr. Rob Sanchez
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Austin, TX 78767 Tel(512)258-5121

Mr. Ted Steinberg
Programming Manager
Motorola, Inc.
3501 Ed Bluestein Blvd.
Austin, TX 78721 Tel.(512)928-2600

Mr. Harry Brooks
Personnel Manager
Rockdale Works
ALCOA
Rockdale, Texas 76567 Tel. (512)446-5811

Proposed Program
Austin Alliance
for
Minorities in Engineering

1. AISD-oriented Programs

- a. Provide minority engineers/students to work on a continuing basis in each junior/senior high school with a significant minority population.
- b. Use Big Brother approach; adoption of a particular school by a local company e.g. site visits, engineering participation, summer opportunities, summer mini-programs given by company engineers and training personnel.
- c. Familiarization breakfasts for counselors and math and science teachers- use standardized program.
- d. Make presentation to AISD Board on purposes and resources for TAME and Austin Alliance.
- e. Survey Federal Agencies for support of programs to better articulate public schools, community colleges, university and industry efforts to improve preparation for technical careers, i.e. creation of HSEP at LBJ using foundation, public school, industry, and Federal Agency funds.
- f. Make videotape/film/slide show for school use.
- g. Adopt significant role in Science Fair, JETS programs.

2. Family-oriented Programs

- a. Work through Black Ministerial Association to reach families with career information.
- b. Use minority community publications to disseminate career data and notification of programs.
- c. Use TAME video tape on local TV channels.

3. University-oriented Programs

- a. Coordinate World of Engineering programs at UT and Texas A&M.
- b. Admissions counselors from engineering colleges to visit all senior high schools to discuss student financial aid sources.
- c. Work with AISD and ACC to improve program articulation.

4. Industry-oriented Programs

- a. Tie plant visits into mini-curriculum each year.
- b. Investigate coop programs.
- c. Tie summer employment into engineering mini-curriculum.

ENGINEERING COLLEGES IN TEXAS

BS Degrees Granted 1976

	Total	Min.	A.I.	Bl.	Hisp.	Wom.	A/P
Houston	236	9	1	3	5	1	4
Lamar	123	8		4	4	6	24
LeTourneau	23						1
Prairie View A&M	47	44		44			
Rice	150	3		1	2	11	1
St. Mary's	6	3			3		
SMU	82	1		1		6	
Texas A&I	84	21			21		
Texas A&M	497	32	4	2	26	10	15
Texas Tech	161	3		1	2	2	
Trinity	15	2			2	3	1
U. Texas-Arlington	230	7		2	5	4	1
U. Texas-Austin	458	31		2	29	12	2
U. Texas-El Paso	122	43			43	3	
U. Texas-Perm. Basin	10					1	
State Total	2244	207	5	60	142	59	49
% of State Total	100	9.2	0.2	2.7	6.3	2.6	2.2
State Population	12 Million 100%	31.6		12.5	18.3	51	
State Civilian Workforce	5 Million 100%	27.0		11.8	14.8	37.5	
National Totals	37,970	1498	41	777	680	1376	1074
% of National Totals	100	3.9	0.1	2.0	1.8	3.6	2.8
Texas as % of National Total in 1976	5.9	13.8	12.2	7.7	20.9	4.3	4.6
In 1975	5.8	14.9	2.3	8.7	22.3	4.2	
National Civilian Labor Force	100	17.5	0.5	12.0	5.0	40	0.5

Source: College Data is from EMC.

ENGINEERING COLLEGES IN TEXAS

FRESHMEN ENROLLMENTS 1976 *

	Total	Min.	A.I.	Bl.	Hisp.	Wom.	A/P
Houston	406	141	3	77	61	56	18
Lamar	340e	20e		13	7	25e	
LeTourneau	63	0				2	
Prairie View A&M	260e	250		250		50e	
Rice	228	22		11	11	38	5
St. Mary's	42	12			12	3	
SMU	10	1			1	2	
Texas A&I	188	55		1	54	10	
Texas A&M	1626	43		3	40	247	3
Texas Tech	525	29	3	11	15	37	3
Trinity	40	8		3	5	6	1
U. Texas-Arlington	482	29	1	18	10	41	4
U. Texas-Austin	1109	166	1	53	112	137	10
U. Texas-El Paso	480	186		1	185	49	1
State Total	5799	962	8	441	513	703	45
% of State Total	100%	16.6	0.1	7.6	8.8	12.1	0.8
State Population	12,002M 100%	31.6		12.5	18.3	5.1	
State Civilian Workforce	5,130M 100%	27.0		11.8	14.8	37.5	
National Totals	82,250	6309	171	4372	1766	8545	1560
% of National Totals	100%	7.7	0.2	5.3	2.2	10.4	1.9
Texas as % of National Total in 1976	7.1	15.2	4.7	10.1	29.0	8.2	2.9
In 1975	7.2	11.8				6.3	

Source: * EMC Preliminary Data

