

**Vita**  
**KENDALL T. HARRIS, PhD P.E.**

Personal Contact:  
7406 Rain Meadow Lane  
Cypress, TX 77433  
(281) 856-9863  
kharris1967@sbcglobal.net

Professional Contact:  
PO Box 519, MS 2500  
Prairie View, TX 77446  
(936) 261-9956  
ktharris@pvamu.edu

**Education**

Doctor of Philosophy, Mechanical Engineering **May 1996**  
University of Mississippi, Oxford, Mississippi  
Dissertation: Effects of Batt Thickness, Surface Barriers, and Binder Content on Heat Transfer Through Fiberglass Insulation

Master of Science, Mechanical Engineering **Aug. 1993**  
University of Mississippi, Oxford, Mississippi  
Thesis: "Effects of Thickness on Heat Transfer in Fibrous Insulation with Moisture Present"

Bachelor of Science, Aerospace Engineering **May 1989**  
Bachelor of General Studies, Psychology **May 1990**  
University of Kansas, Lawrence, Kansas

**Practical Work Experience**

**Dean** – Prairie View A&M University **Oct. 2007 – Present**  
Roy G. Perry College of Engineering

**Responsibilities include but not limited to:**

- Chief College Administrator
- Provide the Vision and Direction for the College of Engineering and Financial Stewardship for the College
- Develop Innovative Strategies that will allow Faculty, Staff and Students to Grow Professionally and Academically
- Work very closely University administrators to reach the goals and objectives of the Roy G. Perry College of Engineering and the University.

**Professor** – Prairie View A&M University **Jan. 2005 – Present**  
Department of Mechanical Engineering  
Roy G. Perry College of Engineering

**Teaching responsibilities:**

- Capable of teaching both at the undergraduate and graduate level.
- Developed and teach a new freshman-level undergraduate course, which introduces engineering, computer science and technology to all incoming freshman and transfer students.

**Research interests:**

- Heat Transfer through Porous Materials, Energy Conservation, Single Phase, Cooling in Electronic Components, Heat Transfer in Manufacturing

**Service involvement:**

- Actively serving on several departmental, college and university committees and task forces.

**Associate Dean** – Prairie View A&M University

**Jan. 2005 – Sep. 2007**

College of Engineering

**Responsibilities include but not limited to:**

- Enhancement of the College's research efforts through the coordination and tracking of all College research.
- Work with Department Heads within the College to ensure that the overall academic mission of the College is properly achieved. Review and maintain the College's core curriculum.
- Act as chief College administrator in the absence of the Dean.
- Assist the Dean with the review of faculty promotion and tenure.
- Directly oversee all College related student programs and activities
- Intimately involved in developing the College's outreach program through summer camp development to on campus visits.
- Work very closely with College and University administrators to reach the goals and objectives of the College of Engineering.

**Associate Chairman** – University of Texas at Arlington

**Aug. 2003 – Dec. 2005**

Department of Mechanical and Aerospace Engineering

**Responsibilities include but not limited to:**

- Maintenance of all Mechanical and Aerospace Engineering departmental academics
- Assisted Chairman in the development and maintenance of departmental budget: faculty salaries, fellowships, scholarships, and maintenance and operation funding of the department.
- Course Scheduling of academic courses offered by the department
- Curriculum Design
- Academic Advising
- Catalog Updating
- Undergraduate Grievances
- Departmental Staff Supervision
- Acting as Chair when Chair is not available

**Associate Professor** - University of Texas at Arlington

**Aug. 2002 - Dec. 2005**

Department of Mechanical and Aerospace Engineering

**Teaching responsibilities:**

- Taught a wide array of course at both the undergraduate and graduate level.
- Developed several new graduate courses to align with research activities.

**Research interests:**

- Heat Transfer through Porous Materials, Energy Conservation, Single Phase, Cooling in Electronic Components, and Heat Transfer in Manufacturing
- Supervised graduate students both at the Masters' and Doctoral levels.

**Service involvement:**

- Actively served on several departmental, college and university committees and task forces.
- Directed the College's summer camps for middle and high school students.

**Director** - DOE Industrial Assessment Center

**Oct. 2000 - Dec. 2005**

Department of Mechanical and Aerospace Engineering

The Industrial Assessment Center (IAC) was a federally funded program, which provided no cost energy, waste and productivity conservation assessments to various manufactures in the Dallas Fort Worth area. There are only twenty-six Federal IAC's in the country.

**Duties included but not limited to:**

- Lead a team of students in Performing Energy Assessment Audits for Industrial Clients
- Professional and Student Staff Supervision
- Budget Manager (over \$1.25 million)
- Reviewed and Audited Technical Reports
- Overall Project Supervision

**Assistant Professor** - University of Texas at Arlington **Jul. 1996 – Jul. 2002**

Department of Mechanical and Aerospace Engineering

**Teaching responsibilities:**

- Taught a wide array of course at both the undergraduate and graduate level.
- Developed several new graduate courses to align with research activities.

**Research interests:**

- Heat Transfer through Porous Materials ,Energy Conservation, Single Phase, Cooling in Electronic Components, Heat Transfer in Manufacturing

**Service involvement:**

- Actively served on several departmental, college and university committees and task forces.

**Academic Advisor** – University of Texas at Arlington **Oct. 1999–Aug. 2003**

Department of Mechanical and Aerospace Engineering

- Responsible for advising and counseling of 150 (+) upper division undergraduate students in the Mechanical Engineering Program.

**Director** - LoanSTAR Industrial Assessment Center **Nov. 1996–Sep. 1998**

Department of Mechanical and Aerospace Engineering

The Industrial Assessment Center was a state funded program that provided no cost energy, waste and productivity conservation assessments to various manufactures in the Dallas Fort Worth area.

- Lead a team of students in Performing Energy Assessment Audits for Industrial Clients
- Professional and Student Staff Supervision
- Reviewed and Audited Technical Reports
- Overall Project Supervision

**Graduate Instructor** - University of Mississippi **Aug. 1995-May 1996**

Department of Mechanical Engineering

- Instructor for the Engineering Systems Analysis and Design Course and responsible for the instruction of the Mechanical Engineering Energy and Fluids Laboratory.

**Graduate Research Assistant - University of Mississippi Jan. 1992-May 1996**

Department of Mechanical Engineering

- Conducted experimental and numerical analysis of heat transfer through a porous material. Increased knowledge base through graduate level courses.

**Graduate Assistant - University of Mississippi Aug. 1993-May 1995**

Office of the Vice-Chancellor for Student Affairs

- Assisted the Vice-Chancellor's Office in various administrative tasks: budget, personnel evaluation, etc.
- Developed and perfected administrative abilities through the interaction with high level University officials.

**United States Naval Officer**

**Jul. 1990-Jan. 1993**

Naval Air Station, Pensacola, Florida

- Graduated from Naval Aviation Officer School
- Trained in and flew F-14D Tomcat aircraft.

**Internship**

**Jun. 1987-Aug. 1987**

McDonnell Douglas Corporation, St. Louis, Missouri

- Mastered integration of new flight systems into the F -18A aircraft.
- Liaison between the Engineering department and the assembly floor.

**Co-Operative Student**

**Jun. 1986-Aug. 1986**

McDonnell Douglas Corporation, St. Louis, Missouri

- Team member on the AV -8B aircraft forward fuselage department.
- Independently corrected and traced technical drawings.

**Engineering Teaching Activities:**

a) *Organized courses taught:*

- |               |           |                                 |
|---------------|-----------|---------------------------------|
| ▪ Fall 2006   | MCEG1011  | Introduction to Eng., Comp. Sc. |
| ▪ Spring 2006 | MCEG 1213 | Creative Engineering            |
| ▪ Fall 2005   | MCEG 1213 | Creative Engineering            |
| ▪ Fall 2004   | MAE 4287  | Design Project I                |
|               | MAE 5321  | Advanced Thermodynamics         |
| ▪ Spring 2004 | MAE 4288  | Design Project II               |
|               | MAE 4327  | HVAC                            |
| ▪ Fall 2003   | MAE 4287  | Design Project I                |
|               | MAE 5321  | Advanced Thermodynamics         |
| ▪ Spring 2003 | MAE 4288  | Design Project II               |
|               | MAE 4327  | HVAC                            |
| ▪ Fall 2002   | MAE 4287  | Design Project I                |
|               | MAE 5321  | Advanced Thermodynamics         |
| ▪ Spring 2002 | MAE 4288  | Design Project II               |
|               | MAE 4327  | HVAC                            |
| ▪ Fall 2001   | MAE 4287  | Design Project I                |
|               | MAE 5321  | Advanced Thermodynamics         |

- Summer 2001 MAE 3314 Heat Transfer
- Spring 2001 MAE 3314 Heat Transfer  
MAE 4327 HVAC
- Fall 2000 MAE 3309 Thermal Engineering  
MAE 5321 Advanced Thermodynamics
- Summer 2000 MAE 3314 Heat Transfer
- Spring 2000 MAE 4188 Design Project II  
MAE 3314 Heat Transfer  
MAE 4327 HVAC
- Fall 1999 MAE 4287 Design Project I  
MAE 4188 Design Project II  
MAE 3309 Thermal Engineering  
MAE 5321 Advanced Thermodynamics
- Summer 1999 MAE 3314 Heat Transfer  
MAE 4188 Design Project II
- Spring 1999 MAE 4287 Design Project I  
MAE 4188 Design Project II  
MAE 3314 Heat Transfer  
MAE 4327 HVAC
- Fall 1998 MAE 4287 Design Project I  
MAE 4188 Design Project II  
MAE 3309 Thermal Engineering  
MAE 5321 Advanced Thermodynamics
- Summer 1998 MAE 3314 Heat Transfer
- Spring 1998 MAE 4287 Design Project I  
MAE 4188 Design Project II  
MAE 3314 Heat Transfer
- Fall 1997 MAE 4287 Design Project I  
MAE 4188 Design Project II  
MAE 3309 Thermal Engineering
- Summer 1997 MAE 3309 Thermal Engineering
- Spring 1997 MAE 3314 Heat Transfer  
ME 5343 Numerical Heat Transfer
- Fall 1996 MAE 3314 Heat Transfer
- Spring 1996 ME 401\* Engineering Energy and  
Fluids Laboratory
- Fall 1995 ME 310\* Engineering Systems  
Analysis and Design

(\* Indicates courses taught at the University of Mississippi)

b) *Individual Instruction*

- As the instructor of the Senior Synthesis class, I directed forty-four (44) individual team design projects. These projects included a variety of Mechanical Engineering applications.

c) *New courses, laboratory and curricula developed and in use that enhance the quality of undergraduate and graduate education*

- Developed a new introduction to engineering, computer science and technology course that all PVAMU's College of Engineering freshmen are required to take. This introduces the freshman engineer, computer scientist and technologist to the fundamental principles of their perspective fields. Courses are titled CHEG, CVEG, COMP, CPET, ELEG, ELET, and MCEG 1011.
- While at University of Texas at Arlington I introduced two new courses for graduate and undergraduate students entitled Energy Management and Concurrent Engineering. These courses were part of a cluster of courses that benefited students who are interested in the industrial energy field.

d) *Awards, citations or other recognition of teaching excellence.*

- Outstanding Academic Advisor College of Engineering – University of Texas at Arlington Fall 2004.
- Nominated at the University of Texas at Arlington Piper Teacher Recipient from the College of Engineering 2000, 2001, 2002, 2003, and 2004.

e) *List of theses and dissertations that have been completed under my supervision.*

- Master Thesis: Singh, Dinesh, “*Optimization of Working Fluids in HVAC Systems*”, May 2005
- Master Project: Patil, Rohan, “*Energy Efficient Design of HVAC Systems*”, May 2005
- Master Thesis: Devi, Sarang, “*Investigation of Heat Pipes with Various Fluids and its Applications to Injection Molds*”, May 2005
- Master Project: Thomas, Preji, “*Air-Conditioning Technologies for Data Centers*”, May 2005

- Master Thesis: Mankrious, Victor, “*HVAC design- Development of Working Fluids*”, December 2004
- Masters Thesis: Shah, Abhishek, “ *Heat Design and Optimization for Electronic Cooling Applications*”, August 2004
- Masters Project: Chandra, Sharath, “*Fuel Cell Applications in an Industrial Environment*”, May 2004
- Masters Project: Kadrenahally, Ajay, “*Structural Analysis of a Gas Fired Furnace*”, Dec. 2003
- Masters Thesis: Trickovic, Stojan, “*Heat Transfer of Fully Developed Flow in Porous Ducts*”, August 2003
- PhD Dissertation: Nnanna, George, *Transient Thermal Transport in Porous Medium – Non-Fourier Model and Non-local Thermal Equilibrium Phenomena*, Aug. 2002
- Masters Project: Samanuhut, Patinya, “*Development in Thermal Efficiency of Reciprocating Compressor Working at Low Load and by Varying the Cylinder Volume*”, May 2002
- PhD Dissertation: Pham, Hoang, *Experimental Analysis of Phase Change Materials in Porous Media*, Aug. 2001
- Masters Project: Sullivan, Patrick, “HVAC design of an Occupied Municipal Building”, Dec. 2000
- Masters Thesis: Nnanna, George, “*Experimental Analysis of Thermosyphons Employing Phase Change Materials to Enhance Cooling*”, Dec. 1999
- Masters Thesis: Siba, Eric, “*Turbulent Heat Transfer in Single Phase Jet Impingement Flow over a Horizontal Disk*”, Spring 1998

f) *List of theses and dissertations that I have advised or served on the committee.*

<b>Number of Advisees</b>	<b>Date</b>	<b>BS/MS/PhD</b>	<b>Your Role</b>	<b>Organization</b>
7-15 groups per semester	1997 – 2004	BS	Design Course Supervisor	Mechanical Engineering
31	1996 - 2004	MS (Non-Thesis)	MS Committee Member	Graduate School
35	1996 – 2004	MS	MS Committee Member	Graduate School
20	1996 – 2004	PhD	PhD Committee Member	Graduate School

### **Scholarly Activities:**

a) *List of publications that have appeared (or will appear) in journals.*

1) Nnanna, A. G., Haji-Sheikh, A., and Harris, K. T., "The Use of Phase Change Material to Passively Cool Electronic and Telecommunication Equipment," Journal of Electronic Packaging, September, 2004.

2) Nnanna, A. G., Harris, K. T., and Haji-Sheikh, A. "An Experimental Study of Non-Fourier Thermal Response in Porous Media," Journal of Porous Media, 2004.

3) Nnanna, A. G., Haji-Sheikh, A., and Harris, K. T., "Experimental study of phase front under local thermal non-equilibrium condition phase change phenomena in porous media," International Journal of Heat and Mass Transfer, 2004.

4) Harris, K.T., McCarty, T.A., Roux, J.A., " Effects of Phenolic Binder on a R-30 Insulation Batt," The Journal of Thermal Insulation and Buildings Envelopes, Vol. 26, No. 3, January 2003, pp 237-257.

5) Siba, E. A., Ganesa-Pillai, A., Harris, K.T., Haji-Sheikh A., "Turbulent Heat Transfer in Single Phase Jet Impingement Flow Over a Horizontal Disk," ASME Journal of Heat Transfer, Vol. 125, No. 2, 2003, pp.257-265

6) Nnanna, A.G., Harris, K.T., Haji-Sheikh, "An Analytical and Experimental Model for a Thermosyphon which Employs Solid/Liquid Phase Change Materials", The ASME Journal of Heat Transfer, February 2001

7) Harris, K.T., Haji-Sheikh, A., Nnanna, A.G., "Phase Change Phenomena un Porous Media – A Non-Local thermal Equilibrium", The International Journal of Heat and Mass Transfer, Vol. 44, 2001,pp 1619-1625

8) Aviles-Ramos, C., Harris, K.T. and Haji-Sheikh, A. "A Hybrid Root Finder," in Integral Methods in Science and Engineering, Edited by B. Bertram, C. Constanda, and A Struthers, Champman & Hall/CRC, London, UK, 2000, pp. 41-50.

9) Harris, K.T., McCarty, T.A., Roux, J.A., "Substrate Barrier Effects for a R-30 Insulation Batt", The Journal of Thermal Insulation and Buildings Envelopes, Vol. 20, Oct. 1996, pp 158-180

10) Harris, K.T., McCarty, T.A., Roux, J.A., "Substrate Barrier Effects for a R-19 Insulation Batt," The Journal of Thermal Insulation and Buildings Envelopes, Vol.19, Jul. 1995, pp. 28-48.



11) Harris, K.T., McCarty, T.A., Roux, J.A., "Experimental and Computational Tests Involving R-11, R-19, and R-30 Fiberglass Insulations," The Journal of Thermal Insulation and Building Envelopes, Vol. 17, Jan. 1994, pp. 197-218.

12) Harris, K.T., McCarty, T.A., Roux, J.A., Gorthala, R., "Total Heat Transfer Due to the Variation in Fiberglass Insulation Thickness in Attics," 29<sup>th</sup> ASME National Conference on Heat Transfer, August 8-11, 1993, Atlanta, Ga., Radiative Heat Transfer Theory and Applications, HTD-Vol. 244, pp. 1-10.

13) Gorthala, R., Harris, K.T., Roux, J.A., McCarty, T.A., "Transient, Conductive, Radiative Heat Transfer Coupled with Moisture Transport in Attic Insulations," Journal of Thermophysics and Heat Transfer, Vol. 7, No. 4, Oct.- Dec. 1993.

b) *List of conference papers presented.*

1) Agonafer, D., Platt, F., Ibarra, J., Agonafer, D., Harris, K.T., Haji, A., "An Experimental Analysis of A Thermal Heat Sink", presented at the 2004 ASME International Mechanical Engineering Congress & Exposition, Anaheim, Ca.

2) Nnanna, A. G. Agwu, Haji-Sheikh, A., and Harris, K. T. 002, "Experimental Study of Phase Front under Local Thermal Non-Equilibrium Condition – Phase Change Phenomena in Porous Media," presented at *ASME International Mechanical Engineering Congress and Exposition, New Orleans, Louisiana*, Paper No. IMECE2002-39705, 2002.

3) Nnanna, A.G, Harris, K.T., Haji-Sheikh, Experimental Validation Of Non-Fourier Thermal Behavior in Porous Structure, presented at the 2001 ASME International Mechanical Engineering Congress & Exposition, New York, NY, Nov. 11-16, 2001.

4) Harris, K.T., Haji-Sheikh, A., Nnanna, A.G., "An Analytical and Experimental Model for a Thermosyphon which Employs Solid/Liquid Phase Change Materials," 2000 ASME International Mechanical Engineering Congress & Exposition, Orlando, FL, Nov. 5-12, 2000.

5) Siba, E. A., Ganesa-Pillai, M., Harris, K.T., Haji-Sheikh, A., "Turbulent Heat Transfer in Single Phase Jet Impingement Flow Over a Horizontal Disk" presented at the session on *Fundamentals of Jet Impingement Heat Transfer*, in 1998 ASME International Mechanical Engineering Congress & Exposition, Anaheim, CA, November 1998.

6) Aviles-Ramos, C., Harris, K. T., and Haji-Sheikh, A., "A Hybrid Root Finder," Presented at the Fifth Integral Methods in Science and Engineering, Horton, Michigan, 1998.

7) Siba, Erick A., Ganesa-Pillai, M., Harris, Kendall T., "Turbulent Heat Transfer in Single Phase Jet Impingement Flow Over a Flat Circular Disk," *Proceedings of the ASME Heat Transfer Division-1998*, Volume 1, HTD-Vol. 361-1, ed. Nelson, et al., 1998, pp. 191-202.

8) Harris, K.T., McCarty, T.A., Roux, J.A., "Substrate Barrier Effects for a R-19 Insulation Batt," 30<sup>th</sup> ASME National Conference on Heat Transfer, AIAA 2-Radiation Heat Transfer, August 5-8, 1995, Portland, Or.

9) Harris, K.T., McCarty, T.A., Roux, J.A., "Experimental and Computational Tests Involving R-11, R-19, and R-30 Fiberglass Insulations, 6<sup>th</sup> AIAA/ASME Thermophysics and Heat Transfer Conference, Heat and Mass Transfer in Insulation, June 20-23 1994, Colorado Springs, Co.

10) Harris, K.T., McCarty, T.A., Roux, J.A., Gorthala, R., "Total Heat Transfer Due to the Variation in Fiberglass Insulation Thickness in Attics," 29<sup>th</sup> ASME National Conference on Heat Transfer, August 8-11, 1993, Atlanta, Ga.

c) *List of technical reports for industry that have been prepared as formal reports.*

As director of the Federal Department of Energy Industrial Assessment Center ninety (90) technical reports were submitted to various manufacturing industries in the DFW area. Due to the proprietary reasons these reports are not released to the public. These reports are entitled IAC #01-001 – LSSIAC #04-090.

As director of the LoanSTAR State Industrial Assessment Center forty-five (45) technical reports were submitted to various manufacturing industries in the DFW area. Due to the proprietary reasons these reports are not released to the public. These reports are entitled LSSIAC #97-001 – LSSIAC #98-045.

d) *List of research proposals funded or pending (include funding information - agency, span time, funds).*

ADVANCE PAID: Successfully Navigating Your Career – Advancing Women Faculty in Engineering & Technology at Historically Black Colleges and Universities (HBCUs)  
National Science Foundation

Duration: Sept. 2009 – May 2012

**Budget: \$846,000.00**

Capacity: Co-PI

**Status: Funded**

Louis Stokes Alliance for Minority Participation IV– System Alliance Proposal  
National Science Foundation

Duration: June 2007 – May 2012

**Budget: \$736,000.00** (Alliance Budget - \$3 Million)

Capacity: Director/Co-PI

**Status: Funded**

Louis Stokes Alliance for Minority Participation – Bridge to the Doctorate  
(Supplement)

National Science Foundation

Duration: August 2005 – July 2007

**Budget: \$987,000.00**

Capacity: Director/Co-PI (PI-Dean of Engineering)

**Status: Funded**

Capstone Design Project  
Dell Computer Corporation  
Duration January 2004 – September 2004  
**Budget: \$5,000.00**  
Capacity: Primary Investigator; Co-PI Dr. Dereje Agonafer  
**Status: Funded**

Federal Industrial Assessment Center  
Sponsoring Agency: Department of Energy (DOE)  
Duration October 2001 – September 2005  
**Budget: \$1,275,000.00**  
Capacity: Primary Investigator; Asst. Director (S. Phillips)  
**Status: Funded**

Development of a Portable Near Field Antenna Scanner  
Sponsoring Agency: Raytheon TI  
Duration: April 01, 1998 – March 31, 1999  
**Budget: \$14,800.00**  
Capacity: Co- Primary Investigator (PI – Dr. John Bredow, EE)  
**Status: Funded**

LoanSTAR Industrial Assessment Center  
Sponsoring Agency: State Energy Conservation Office (SECO)  
Duration: September 01, 1997 – August 31, 1998  
**Budget: \$113,000.00**  
Capacity: Director/PI (Assistant Director - Ms. Sarah Philips, MAE)  
**Status: Funded**

LoanSTAR Industrial Assessment Center  
Sponsoring Agency: State Energy Conservation Office (SECO)  
Duration: November 01, 1996 - August 31, 1997  
**Budget: \$70,000.00**  
Capacity: Director/PI (Assistant Director – Dr. Stephen Kugle, MAE)  
**Status: Funded**

**Total External Funding to Date: \$ 4,200,800.00**

Submitted Proposals:

S-STEM: Undergraduate Pipeline to Engineering and Research in Science,  
Technology, Engineering and Mathematics  
National Science Foundation  
Duration: August 2006 – July 2011  
Budget: \$499,997.00  
Capacity: PI (co-PI's K. Kirby, et al)  
Status: Not Funded

“Integration of Undergraduate Recruitment and Retention strategies to Increase the Enrollment and Graduation Rates in the College of Engineering”  
Sponsoring Agency: Technology Workforce Development Grants Program  
Duration: August 2006 – July 2008  
Budget: \$285,000.00  
Capacity: PI  
Status: Not Funded

HVAC Data Center Cooling  
Sponsoring Agency: NASA  
Duration To Be Determined  
Budget: \$100,000.00  
Capacity: Co-PI; PI Dr. Dereje Agonafer  
Status: Not Funded

“Estimation of Interstitial Heat Transfer Coefficient in Porous Media Saturated with Phase Change Material”  
Sponsoring Agency: National Science Foundation  
Duration: January 2000 – January 2002  
Budget: \$167,000.00  
Capacity: PI; Co-PI A. Haji-Sheikh  
Status: Not Funded

“Estimation of Interstitial Heat Transfer Coefficient in Porous Media Saturated with Phase Change Material”  
Duration: January 2000 – January 2002  
Budget: \$167,000.00  
Capacity: PI; Co-PI A. Haji-Sheikh  
Status: Not Funded

Electron-Lattice Coupling in Microscale Devices  
Sponsoring Agency: National Science Foundation  
Duration: June 01, 1998 - December 31, 1999  
Budget: \$110,000.00  
Capacity: PI  
Status: Not Funded

Electron-Lattice Coupling in Microscale Devices, (ARP)  
Sponsoring Agency: Texas Higher Education Coordinating Board  
Duration: January 01, 1998 - December 31, 1999  
Budget: \$190,060.00  
Capacity: Co-PI (PI – Dr. A. Haji-Sheikh, MAE)  
Status: Not Funded

**Professional Activities:**

- a) *Activities in professional and honor societies-membership, offices held.*

- National Society of Black Engineers
- American Institute of Aeronautics and Astronautics (AIAA)
- American Society of Mechanical Engineers (ASME)
- American Society of Heating Refrigeration, and Air Conditioning Engineers (ASHRAE)

*b) Registration - States*

Licensed Professional Engineer - State of Texas -2004  
License # 95091

*c) Awards, citations or other recognition of professional activity*

- Honored as Outstanding Academic Advisor for the College of Engineering at the University of Texas at Arlington Fall 2004
- Nominated as the 2000, 2001, 2002, and 2003 Piper Teacher Award representative for the College of Engineering at the University of Texas at Arlington
- Honored as an excellent engineering educator by the National Society of Black Engineering, Spring 1997

*d) Description of professional activities that are considered to be of value to faculty member position.*

- Since joining the faculty at Prairie View A&M University (Spring of 2005) I have played a vital role in supporting and developing the summer outreach program for the College of Engineering. Currently, the College has five (5) summer programs and is planning to expand to nine (9) by the summer of 2010. Of the current five (5) programs and the future four (4), I am heavily involved. These programs will range from elementary age students to pre-college students and their purpose is to increase the number of students interested in STEM majors.
- From the summer of 1998 to the summer of 2004, I directed three summer programs for the College of Engineering at UTA. The first program was for 11<sup>th</sup> and 12<sup>th</sup> graders that were interested in engineering. While the second of these program was for 9<sup>th</sup> and 10<sup>th</sup> graders who were also interested in engineering. The third program was for 7<sup>th</sup> and 8<sup>th</sup> graders who were also interested in engineering. Developed the curriculum and all activities for all programs. The duration of each program was one-week.

- Each summer during my tenure at UTA, I taught an Introduction to Engineering Course to the students attending the Upward Bound Math and Science program. This course was designed to give the students an opportunity to see the various fields of engineering.
- Appointed as the Mechanical Engineering (UTA) undergraduate advisor for upper division students (approximately 150 students).

**University and Community Service:**

a) *Major college and university committees - name of organization and role.*

- University Academic Council (PVAMU), 2005 – Present
- University Graduate Council (PVAMU), 2005 – Present
- Search Committee for Mechanical Engineering Faculty (PVAMU), Present
- University College Faculty Advisory Representative for the College of Engineering (PVAMU), Present
- Chair of the Mechanical Engineering Department Tenure and Promotion Committee (PVAMU), Present
- Chair of the College of Engineering Freshman Advisory Committee (PVAMU), Present
- 4<sup>th</sup> Annual Texas A&M University System Pathways Student Research Symposium Committee (PVAMU), 2006
- Search Committee for the Department Head of Management and Marketing – College of Business (PVAMU), 2006
- Search Committee for the Dean of Agriculture (PVAMU), 2005
- Tarrant County College – Engineering Technology Advisory Committee-Chairperson (UTA) , Spring 2002 – 2004
- Curriculum Review Committee (UTA) , Spring 2000 - 2004
- Mechanical Engineering PHD Exam Coordinator (Thermal Science) (UTA), Fall 2000 – 2004
- University Master Development Plan Committee (UTA), Fall 1999 - 2004
- Faculty Outreach Program (UTA), 1996-2004
- Mechanical Engineering Committee on Graduate Studies (UTA), 1996-2004

- McNair Scholarship Selection Committee (UTA), Fall 1996 - 2004
- Upward Bound – ‘Math and Science Program’ Advisory Committee (UTA) , Fall 1996 – 2004
- ABET/Thermo-Fluid Committee Fall (UTA), 1999
- Search Committee for the Dean of Science (UTA), Fall 1997
- Outstanding UTA Teacher Committee (UTA), Spring 1997

*b) Student organizations sponsor or counselor – name of organization and role.*

- National Society of Black Engineers (UTA/PVAMU) - Advisor
- American Society of Mechanical Engineering (UTA) – Advisor
- American Society of Heating/Ventilation and Air Conditioning (UTA) - Advisor
- Phi Beta Sigma Fraternity (UTA) - Advisor
- Zeta Phi Beta Sorority (UTA) – Advisor

*c) Community activities - name of activity and role.*

- Board Member Arlington New Beginning Project - Current
- Board Member of Metro Christian Academy (Vice Chairman) – Current
- Mentor and tutor for the OD Wyatt High School Tutorial Program
- Board Member of Big Brothers/Big Sisters of Arlington-Mansfield, TX