

David Olowokere PhD, PE.

ACADEMIC QUALIFICATIONS

Ph.D. - Structural Engineering, State University of New York, Buffalo, NY (May 1978). Thesis: Toward the Optimum Stability Design of Web-Tapered Structural Steel Column--- A Finite Element Approach.

M.Sc. - Civil Engineering, Queen's University, Kingston Ontario, Canada. (Nov. 1974). (Emphasis on Soil Mechanics and Foundation Engineering)

B.Sc. - Civil Engineering, Ahmadu Bello University, Zaria, Nigeria (June, 1972). (General Civil Engineering including Computer Programming & Construction Management).

EMPLOYMENT HISTORY(OVER LAST 20 YEARS)

CURRENT EMPLOYMENT

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|--|-------------------|
| Department of Engineering, Texas Southern University, Houston, Texas Professor of Civil Engineering | 9/2017 – Present |
| Department of Engineering, Texas Southern University, Houston, Texas Professor & Chair | 01/2013 – 08/2017 |
| Department of Engineering Technology, Texas Southern University, Houston, Texas Professor & Chair | 07/2005 – 08/2017 |
| Department of Aviation Science & Technology, Texas Southern University, Houston, Texas Professor & Interim Chair | 9/2012 – 8/2015 |

PREVIOUS EMPLOYMENT

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|--|-------------------|
| City of Birmingham (Mayor's Office) Assistant to Mayor & Administrator, Capital Improvement Projects (<i>On Leave of Absence from UAB</i>) | 7/2001 – 7/2005 |
| University of Alabama at Birmingham (UAB) Associate Professor (Structural Engineering & Structural Mechanics) Civil Engineering Department | 9/1993 – 6/2001 |
| University of Detroit-Detroit, MI Associate Professor Civil Engineering Department | 9/1989 - 9/1993 |
| Wayne State University - Detroit, MI Visiting Associate Professor Civil Engineering Department | 1/1986 - 6/1989 |
| University of Lagos-Lagos, Nigeria Lecture/Senior Lecturer, Civil Engineering Department | 10/1978 - 12/1985 |

PUBLICATIONS

Theses:

Olowokere, D.O., "Toward the Optimum Stability Design of Web-Tapered Structural Steel Column -- A Finite Element Approach". Ph.D. Thesis, State University of New York, Buffalo, N.Y. Feb. 1978.

Olowokere, D.O., "Strength and Deformation of Railway Ballast Subject to Repeated Loading." M.Sc. Thesis, Queen's University, Kingston, Ontario, Canada. Nov. 1974.

Refereed Publications

D.O. Olowokere, "Finite Element Formulation for Design Guides for Web-Tapered Structural Steel Member", 1st. International Conference, Congress of Theoretical and Applied Mechanics. June 1977.

D. Olowokere, J. Gaddy, S. Desai. "On the Stability of Thin Shell Dome Liners for Prestressed Concrete Nuclear Reactor Containment Structures", Proceedings of the 3rd. Engineering Mechanics - Division Specialty Conference, Sept., 1979 - Austin, Texas.

D. Olowokere, "Design Guide for Un-Equal flanged Steel Structural Column", Journal of Structural Engineering practice, Vol 2, No. 3, 1983.

D. Olowokere, "Failure of Stiffened Steel Liners for Nuclear Reactor Containment structure Under Construction", Computer and Structures, Vol. 19, No. 4, 1984.

D. Olowokere, "On the Design of Web-Tapered, Un-Equal Flanged Structural Steel Column" Journal of Constructional Steel Research, Vol. 4, No. 2, 1984.

D. Olowokere, "Strengthening of Existing Structural Steel Member," International Journal of Building and Civil Engineering Contractors. Vol. 1, No. 1, March 1984.

D. Olowokere, "Behavior of Railway Ballast when Subjected to Triaxial Loading." Journal of Civil Engineering for practicing and Design Engineers, Vol. 4, No. 12, April, 1986.

A. Oyekan and D. Olowokere, "Shear Strength of Steel Stud Connectors in Composite Construction - A State of the Art Review." Structural Engineering -Journal of the Nigerian Institute of Structural Engineers, Vol. 1, No. 1, April, 1987.

T. Arciszewski and D. O. Olowokere, "Simplified Model of Belt-Truss Bracing System for Tall Buildings," Proceedings of the 4th International conference on Tall Buildings (Hong Kong, April 1988).

D. Olowokere and K. Chung, "Siting the Superconducting Super Collider Tunnel in Michigan - A Case Study" Proceedings of the 7th Annual Tunneling Conference. Edmonton, Canada, May 1988.

D. O. Olowokere and K. Udama; "Stability Design of Reticulated Shells Using an Equivalent Monocoque Section of a Continua." Proceedings Economic Design - 88 Conference, London, U.K., July, 1988.

N.M. Khalaf and D.O. Olowokere, "On the Stabilization of Soil with Hay." Proceedings, Economic Design - 88 Conference, London, U.K., July, 1988.

Youseff-Agha W., Aktan, H. and Olowokere, D.O. "Effect of Joint Flexibility on Seismic Response of Low-Rise Steel Frames." ASCE Journal-Structural Division, March 1989.

Uduma, K., Olowokere, D. and Arciszewski, T., "Survey of Existing Studies on the Strength and Deformation of Spherical Joints in Steel Space Trusses" AISC Engineering Journal, 2nd quarter, June 1989.

Olowokere, D. and Evans, J., "Problem of Hydro-Fracturing in Slurry Trench Cut-Off Wall". Presented at the

- 1989 Canadian Society of Civil Engineers Annual Conference, St. John's Newfoundland, June 1989.
- Aktan, H. and Youseff-Agha, W. and Olowokere, D., "Effect of Fabrication Error on the Seismic Response of Low-Rise Steel Frames." ASCE Journal - Structural Division, January 1990.
- Olowokere, D., "Development of a Simple Algorithm for the Classification of Geotechnical Materials". Proceedings 8th National Conference on Microcomputers in Civil Engineering, Orlando, FL., Nov. 1990.
- Olowokere, D. Aktan H. and Akanni, A., "Toward an Exact Value for the Flexural Stiffness of Tall Rigid Frames." Journal of Computers and Structures, Vol 39, No. 1/2, 1991.
- Sendjarevic, V. and Olowokere, D., "Safe Disposal of Hazardous Wastes by Means of Polymeric Isocyanate-Based Binders." Proceedings of the Polyurethane World Conference, Oct. 13, 1993.
- Olowokere, D.O. and Bilal, C., "Toward an Accurate Effective Flange Width of Composite Beams". International Journal of Structural Engineering and Mechanics, Vol 2 No. 2 (1994).
- Nwosu, D.I. and Olowokere, D.O., "Local Strain Computation of Crack Initiation Life of an Unstiffened Steel Tubular T-Joint". Computer and Structures: An International Journal. Vol. 57, No. 2, 1995.
- Nwosu, D.I., Swamidas, A.S.J. and Olowokere, D.O., "Studies on Influence of Cracks on the Dynamic Response of Tubular T-Joints for Nondestructive Evaluation". Proceedings of the 13th International Modal Analysis Conference, Nashville, TN. Feb. 13-16, 1995.
- Olowokere, D. and Nwosu, D.I., "Evaluation of Fatigue Crack Growth in Steel Tubular T-joints using Line Spring Element Technique" Journal of Engineering Failure Analysis. Vol. 2, No. 1, 1995.
- Olowokere, D., "Improving the Management of our Transportation Infrastructure". Proceedings, 14th Annual International Association of Management Conference, Toronto, Canada. August 2-6, 1996.
- Olowokere, D. and Nwosu, D.I., "Numerical Studies on Crack Growth in a Steel Tubular T-Joint". International Journal of Mechanical Sciences, Dec. 1996).
- Abatan, A., Hu, H. and Olowokere, D., Impact Resistance Modeling of Hybrid Laminated Composites Proceedings, 12th Technical Conference of the American Society for Composites, Detroit, MI. October, 1997.
- Fowler, J. and Olowokere, D., Alternative Technology for Dredging and Dewatering of Hazardous Sludge in Marine Environment. Proceedings, 85th Annual Meeting of the Transportation Research Board, Washington, DC. January 2006.
- Olowokere, D. and Darayan, S., Peer Tutoring at TSU Engineering Technology Program: Assessing its Outcome and Impact on Retention and Academic Achievement. Presented at the HBCU Foundations Annual Symposium, Houston, Texas. October 2006.
- Olowokere, D. Combined Drydredge and Geotube Technologies for Managing Sludge in Marine Environment. Journal of Applied Science and Engineering Technology. Spring 2007.
- Thomas, G. and Olowokere, D. Embracing the Opportunities of Globalization and Technology for Sustainable Development: An Alternative Approach for the Organization of Eastern Caribbean States (OECS). Proceeding, Fifth Latin American and Caribbean Conference for Engineering and Technology. May 29-June 2007
- D. Olowokere, L. Kehinde, O. Jonah, O. Osasona "Human and Infrastructure Issues in the Development of Web-Based Laboratories Challenged Environments", ASEE Annual Conference & Exposition, Pittsburgh, PA, June, 2008.

D. Olowokere, K. Ayodele, L. Kehinde, O. Jonah, T. Ajayi, O. Akinwunmi, "Realistic Looking Interfaces: In Search of the Best Ergonomic Metaphors for Remote and Virtual Laboratory Interfaces", ASEE Annual Conference & Exposition, Pittsburgh, PA, June, 2008.

X.Chen, D.Olowokere, and G. Thomas, "Teaching Java–Object First with BlueJ", ASEE Annual Conference & Exposition, Pittsburgh, PA, June, 2008.

Olowokere, D. On the Mitigation of Hazards resulting from Hurricane-induced Forces on Residential Buildings. Presented at the 2008 IEEE International Conference on Networking, Sensing and Control. Sanya, China, April 6-8, 2008

Xuemin Chen, Shahryar Darayan, and David Olowokere, and Xuemin, "Develop Virtual and Remote Accessible Laboratory Frame for Undergraduates of Engineering Technologies" IMCL Conference, Jordan, 2009

Olowokere, D., Chen, X; Darayan S., Development of Virtual and Remote Accessible Laboratory Frame for Engineering Technology Undergraduates. International Journal of On-Line Engineering. June 2010

Olowokere D., Syed Basir, Case Study of Solar PV Technology Applications: Issues and Insights. Presented at the International Association of Science and Technology for Development Conference, Singapore. March 2010

Shahryar Darayan, David Olowokere, and Xuemin Chen , "Utilizing Program Outcomes in the Modification of Engineering Technology Curriculum" ASCE National Conference, Honolulu, Hawaii, March 2010

Xuemin Chen, Lawrence Kehinde, Yuhong Zhang, Shahryar Darayan, David Olowokere, "Using Virtual and Remote Laboratory to Enhance Engineering Technology Education" ASEE National Conference, Vancouver, Canada , June 2011

O. Ibidapo-Obe, D. Olowokere & M. Ayomoh, Simulation Model for Mobile Manipulator Navigation system for Lunar Oxygen Production. Journal of the International Society of Agile Manufacturing. August 2011

Shahryar Darayan, David Olowokere, and Xuemin Chen , " Development of Two New Courses in the Modification of Engineering Technology Curriculum" IGIP International Symposium on Engineering Education, Brazil, 2011

Shahryar Darayan, Xuemin Chen, and David Olowokere "Developing New Courses in Engineering Technology Curriculum Based on the Program Outcome Result" ASCE National Conference, Pasadena , California H, March 2012.

Daniel Osakue, Osman Ahmed, Xuemin Chen, S. Darayan, and D. Olowokere, "Virtual and Remote Laboratory Framework Development for Engineering Technology Education-A Case Study" , ASCE National Conference, Pasadena , California H, March 2012.

Abayomi Ajofoyinbo and David Olowokere, "Discounted Semi-Markov Decision Process Based Structural Health Monitoring Model for Civil Infrastructure Systems using Wireless Smart Sensor Networks". European Journal of Scientific Research. Volume 121 No 4, April, 2014

A. Ajofoyinbo & D. Olowokere, "Health Monitoring and Control of Civil Infrastructures using Wireless Smart Sensors ". Bulletin of Electrical Engineering and Informatics. Vol. 3, No. 3. September 2014.

M. Ayomoh, O. Ibidapo-Obe, and D. Olowokere. "Inverse Kinematics Analysis of a Five Jointed Revolute Arm Mechanism". *Journal of Control Science and Engineering*. Vol 2, No. 1. February 2014.

D.Y. Wang, David Olowokere, Lulu Zhang (2014). Interpretation of soil-cement properties and application in numerical studies of ground settlement due to tunneling under existing metro line. *Int. J. Geotech. Geologic. Engineering* (Springer, doi:10.1007/s10706-014-9803-2)

Ajofoyinbo A, Olowokere D (2015). Fuzzy Control Model for Structural Health Monitoring of Civil Infrastructure System. *Journal of Control Science and Engineering*, Vol 3, No. 1.

Olowokere D, Ajofoyinbo A (2015). A Framework for Integrating Intelligent Sensor Measurement Data into Engineering Education. *Proceedings of Annual Conference of the American Society for Engineering Education*. June 14-17 2015.

Olowokere D, Ajofoyinbo A (2015). Energy-efficient MAC Protocol using Directional Antennas in IEEE 802.11– Based Wireless Sensor Networks. *International Journal of Electronics Communication and Computer Engineering*, Volume 6, Issue 5, September 2015.

Ajofoyinbo A, Olowokere D (2015). Markov Decision Process-Based Structural Health Monitoring Model for Civil Infrastructure Systems using Energy-Efficient Wireless Smart-Sensor Networks. *International Journal of Modern Engineering*, Vol. 15, No.2.

SELECTED PRESENTATIONS

"Stress Redistribution in a Retrofitted Truss Structure"

To ASCE meeting, Civil Engineering Dept., Bucknell University, Lewisburg, Pa. Mar. 1989.

"Earthquakes-A General Survey of Structural and Geotechnical Considerations" To the Alumni Council of University of Detroit Faculty of Engineering. Dec. 1989.

"Interpretation of AASHTO Manual for Upgrading of Existing Bridge Structures" To City Engineering Department, City of Detroit, Detroit, MI. July 1990.

"Urgent Research Needs on Bridge Infrastructure"

Dinner speech at the ASCE South-Eastern Michigan meeting, Ypsilanti, MI. September, 1990.

"Laterized Concrete: An Untapped Structural Material in the Developing Nations"

Presentation at the UNDP - sponsored seminar on construction materials in developing nations. Lagos, Nigeria. Dec. 1990.

"Abacus and Patran : A Winning FEM Solver and Modeler Team"

Presentation at the ESD meeting on Finite Element modeling of automotive components. Jul. 1991.

"Need for the Capstone Design Course in Civil Engineering Curriculum"

Presented to the Faculty of Engineering Accreditation Committee on ABET Design requirements. University of Detroit. Oct. 1991.

" A Management Tool for Bridge Vulnerability Assessment"

To City Engineering Dept., City of Detroit. Dec. 1991.

"Bridge Architecture: An Underemphasized Aspect of Architecture Structure"

Presented to the senior design project group, School of Architecture, University of Detroit, Detroit, MI. December 1991.

"Simplified Method for Design of Bracing Systems in Tall Buildings"
Presentation at the structural engineering seminar series, Wayne State University, Detroit, Mi. Jan. 1993.

"Overview of Evaluation and Rehabilitation Program for Alabama Bridges."
A presentation to the Alabama Society of Professional Engineers. March 1995. Birmingham, Alabama.

Selected specialized consultancy reports.

"Earth tremor in Cleveland: Structural Assessment of Damaged Low-Rise Steel Frames"
April 1986

"Investigation of Structural Failure of Sign-Posts in the Detroit Area"
Special report to the Michigan Department of Transportation. Nov 1986.

"Corrective Measure for Settlement Problems in the Monroe Metro Park"
Monroe, Michigan. January 1987.

"Adequacy of the Edge Balustrade of the Ziwaukee Bridge"
Report made for Michigan Dept. of Transportation. June 1987.

"Re-Evaluation of Structural Capacity of Hanger Supports for TVA HVAC Ducts"
A technical report for Sargent and Lundy, Chicago, Ill. June 1989.

"Methods for Reducing Excessive Vibrations in the Mezzanine Floor of the Fox Theatre"
Detroit, MI. Feb. 1990.

Expert witness for Ford Motor. Report on "Failure of Off-Shore Structure"
Case against Tripoca Shipping Co. Jan 1999.

Special Consultant to the Jefferson County, State of Alabama on the design of a complex steel framed proposed West End Clinic. Jefferson County Department of Health. May 2004

Re-engineering of Coastal Infrastructures for Sustainable Development. Presentation to the New Orleans, Louisiana Chamber of Commerce. September 2006.

On the Gridding of Solar Power from Source to Consumer. Presentation to Advisory Board of the Houston Renewable Energy Initiatives. March 14 2007.

Trend of development and emergence of man-made satellite system from inception until now. Keynote speech, International Conference and Exhibition on Satellite Technology held in Houston August 17 – 19 2015

AFFILIATION WITH PROFESSIONAL BODIES

Current affiliation is with the following professional bodies:

- American Society of Civil Engineers (ASCE)
- American Concrete Institute (ACI)
- American Institute of Steel Construction (AISC)
- Registered as a Professional Engineer in Michigan, Pennsylvania and Alabama.

Have interacted, for a period spanning over 35 years, with professional engineers and architects on issues related to the construction process of numerous building structures, bridges and stormwater structures.

COMMUNICATION SKILL

Highly effective. Have successfully addressed scores of professional and fund-raising gatherings in various parts of U.S., Canada, Europe and Africa.

GRANTMANSHIP

List of Selected Funded Proposals Written as Principal Investigator (PI) or Investigator(I).

- Preliminary Studies on Condition Assessment of Offshore Steel platform.(PI) 10/93
Amount: \$30,000.00 Comprehensive Minority Faculty Development
Program. University of Alabama, Birmingham, Alabama.
- Testing of Rigid Structural Systems Using Pseudo-Dynamic
Approach.(PI).12/93
Amount; \$499,959.00 National Science Foundation---Research in Minority Institution (RIMI)
Program.
- Preliminary Studies for Evaluation of Vulnerability of Railway Bridge
Foundations to Failure from Scouring. (PI) 12/93.
Amount: \$2,200.00 UAB Faculty Research Grant Program.
- Instrumentation of Railway bridges using An Unattended data Acquisition
System. (I) 1/94
Amount: \$11,999.00 National Science Foundation.
- Department of Defense Environmental Scholarships/Fellowships and
Grant Program.(PI) 6/94.
Amount: \$2,079,148.00 Department of Defense.
- Birmingham Community Partnership Center. (I) 3/95
Amount: \$1,548,124.00 U.S. Department of Housing and Urban
Development.
- Modal techniques for Improved Maintenance of Steel Bridge Structures.
(PI) 5/95
Amount: \$99,904.00. NCHRP
- Modal Testing for Condition Assessment of Offshore Civil Infrastructure
System.(PI) 5/95.
Amount: \$299,549.00 National Science Foundation
- Research Experience Site in Structural Engineering for Undergraduate (REU). (I) 6/95
Amount: \$110,000.00 National Science Foundation
- Solidification/stabilization of Incinerator Ash and Evaluation of Resulting
Product for Structural Utilization. (PI) 3/96
Amount: \$57,494.00 EPA
- Outreach Program for Minority students.(PI) 5/96
Amount: \$14,000.00
- Establishing Titusville 2000 Construction Internship Program in CEE
Department. (PI) 7/96.
Amount: \$23,000.00 Titusville Development Corporation
- Establishing Titusville 2000 construction Internship program(PI).(Cont.).7/97 \$13,000.00
Titusville development Corporation.

- Fatigue Life Prediction of Welded Offshore Steel Structures. (PI) 9/99
Amount: \$549,000.00 Department of Defense (MURI) Program.
- Course, Curriculum and Laboratory Improvement. (I) 11/99
Amount: \$99,829.00 National Science Foundation.
- Re-engineering residential Buildings in Jefferson county to resist tornado Forces. (PI) 12/99.
Amount: \$79,610.00 Jefferson County Commission, Alabama.
- Supplementary Engineering Support for NASA Mission Safety and Quality Assurance. (with SAIC) (PI) 5/2006.
Amount: \$460,000.00 per year for 3 years. NASA
- Pre-college engineering program at TSU. \$50,000. Army Research Office. (PI). March 2007. On-going project.
- Development of Virtual and Remotely Accessible Laboratory for Engineering Technologies Undergraduate Students. (PI). Amount: \$149,000.00. National Science Foundation. 6/2009. On-going project.
- TSU Biodiesel Initiatives. \$625,000.00 over 5 years. Proposal under review by US. Department of education, Title III Program.
- Principal Investigator for TSU-SAIC/NASA Project – Subcontract from SAIC
 - Provide engineering assessments for software intensive ground systems residing at the Johnson Space Center.
 - Identify and assess risks to NASA Safety and Mission Assurance program. (\$493,000.00)
- Principal Investigator – Army Research Office (ARO) grant for TSU Pre-College Engineering Program. (\$50,000.00). Recurrent every summer. On-going.
- Supplementary Engineering Support for NASA Mission Safety and Quality Assurance. (with SAIC). (PI) 5/2006. Amount: \$1.3m NASA. On-going.
- Principal Investigator --- Systems Analysis of Renewable Energy Technology for Production of lunar Oxygen. (PI). Amount: \$250,000.00. (with Savannah State University, University of Texas, El Paso) UNCF/NASA Science and Technology Institute Research Cluster. Project Kick-off : February 2009.
- Principal Investigator – Structural Monitoring of Composite Overwrapped Pressure Vessel. NASA Science and Technology Institute. \$600,000.00. On-going
- NSF CREST – Wireless Sensor Network Research --- \$5,000,000.00. Director of Technology Transfer. 09/2012 – 08/2017
- Co-PI --- Development of Knowledge-Based System for Integrating Artificial Intelligence into the Undergraduate Engineering Curriculum at Texas Southern University. National Science Foundation. 6/2015. Amount: \$400,000.00. On-going.

SYNERGISTIC ACTIVITIES

- Developed and secured funding for a comprehensive peer-tutoring program for the Department of Engineering Technology, Texas Southern University.
- Established and developed a new course, Alternative Energy Technology, and its curriculum.

- Activate the photovoltaic laboratory for increased usage for studies related to solar and other renewable energy topics.
- Reviewer for the State of Texas Emerging Technology grant applications from various high-tech companies in Texas.
- Was structural analyst for Waco, Texas supercollider tunnel.

ADMINISTRATIVE EXPERIENCE

Chair, Department of Engineering, Texas Southern University, Houston, Texas. 7/2005 – Present

Duties include:

- Providing leadership for teaching and scholarly activities in this 12-faculty department consisting of three programs—Computer Engineering, Electronics Engineering and Civil Engineering.(and Petroleum & Natural Gas Engineering which is due to commence May 2012)
- Oversight on budgeting and department personnel issues,
- Effective liaison with the provost's office,
- Assurance of teaching and research excellence
- Maintaining of positive impact of departmental activities on the immediate community.
- Fund-raising activities from miscellaneous organizations, including multinational oil and gas companies.

Administrator, Capital Projects, City of Birmingham.

Duty includes overseeing the expenditure of over \$70 million budget on capital improvement projects for the city; acting on behalf of the Mayor in providing leadership to the engineering and planning staff; acting as the Mayor's liaison for the Birmingham Water Works, Birmingham Airport Authority, Birmingham Transit Authority and Birmingham Construction Industry Authority; acting as the key adviser to the Mayor on city's infrastructure improvement. (7/2001 to 3/2004)

Director, Structural and Construction Engineering Division of the civil engineering department, University of Detroit. 8/89 to 8/93. Administered budget for various equipment purchase for the structural laboratory. Overseeing teaching and research activities in structural engineering.

Chairman, Design Committee, College of Engineering, University of Detroit, Detroit, MI.

Chaired the 4-man committee that reviewed all design-related courses at the college of engineering for the purpose of ensuring conformance with accreditation requirements. (12/90 to 12/92)

Director, Structural and Construction Engineering Division, UNILAG Consult, University of Lagos, Lagos, Nigeria.

Directed the structural engineering division of this major consulting Organization.

- Responsible for staffing, budgeting and various administrative tasks.
- Led and supervised the various issues connected with the design and construction inspection of the headquarters of the Nigeria Airways--an 18-story concrete structure utilizing shear wall/frame action for resistance of lateral load. (8/78 to 7/79)

Director, Center for Titusville Infrastructure Study, University of Alabama, Birmingham. (4/94 – 5/98)

Project Director, Construction Internship Program, Civil Engineering Department, University of Alabama at Birmingham. (8/95 – 4/2000)

SELECTED FULL-TIME INDUSTRIAL EXPERIENCE

Dec. 1972 - Oct. 1973, Jul 1975 - May 1976 and June 1977 - October 1977.

- Hooker Chemical Corp., Niagara Falls, New York.

- Acted, on each occasion, as the Principal Structural Designer in the Plant Engineering Division.
- Designed various bracing systems and pole supports for pipe network.

December 1977 - May 1978

- Commonwealth - Associates, Jackson, Michigan.
- Acted as an Associate structural Engineer for the analysis and designing of a nuclear reactor containment structure for the Ohio Edison Corp. Power Plant.

October 1978 - September 1981 (summer months)

- Structwork Consultants - An American Multidisciplinary Consulting Engineering Firm based in Lagos, West Africa.
- Involved in the designing of concrete and steel Earth/Water Retaining Structures.
- Construction Inspection of several projects including a dam project in Ivory Coast.
- Complete project management for the construction of the extension of the U. S. Embassy in Togo.
- Supervised the design for the rehabilitation of Pepsi-Cola plant in Liberia.

December 1981 - July 1982

- Consentino & Partners, Calgary, Canada.
- Acted as the Structural Analyst for the modification of the POSTEN Computer program for the design of Post-tensioned Structural member.
- Involved in the design of various multi-story buildings using the POSTEN Computer Program.

April 1987 - September 1987

- Commonwealth Associates, Jackson, Michigan.
- Involved in the solution of the soil structure interaction problem of the superconducting super collider tunnels for the Michigan State Atomic Energy Commission.
- Involved in the structural design of the cast-in-place/precast-segmented concrete lining for the tunnels.
- Involved in the detail write-up of the final report for the project. (special consultancy work)

April 1988 - August 1988

- Sargent & Lundy, Chicago
- Performed the Analysis, Design and construction inspection for the HAVC Duct Support Systems for the Tennessee Valley Authority S.W. Plant. (special consultancy work)

PROFESSIONAL SOCIETY MEMBERSHIP/ REGISTRATION

- Registered with the Council of Registered Engineers of Nigeria (COREN)
- Registered as a Professional Engineer in Michigan, Pennsylvania and Alabama; and also in Ontario and Alberta, Canada.

Member:

- American Society of Civil Engineers (ASCE)
- American Concrete Institute (ACI)
- American Institute of Steel Construction (AISC)
- The American Masonry Society

SELECTED NATIONAL RECOGNITION.

- Member, American Society of Civil Engineers Construction and Maintenance of Highways Technical Committee.
- Member, Advisory Board for Curriculum development, Clark-Atlanta University, Atlanta, GA.

SELECTED INTERNATIONAL RECOGNITION.

Selected by the UNDP Committee for Sustainable Development to conduct series of workshop in Bangkok and Singapore – essentially involving stormwater and sanitary sewer construction issues. The assignment also included management of government construction projects. July 1989

PERSONAL

Citizenship: USA

Marital Status: Married

Wife's Profession: Civil Engineering

Hobby: Tennis, roller-skating.