

**RESUME
for
HAROLD R. "Skip" PAUL, P.E.**

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EDUCATION

Lehigh University
Bethlehem, PA 18015 B.A. (English) May 1976
BSME May 1976
Major Fields: Fluids, Heat
Transfer and Thermodynamics

Louisiana State University
Baton Rouge, LA 70804 12 hours graduate level course
M.E. and Business
Jan. 1978 - Jan. 1980

Government Services Institute Management in State Government
Louisiana State University Levels I - III
Baton Rouge, LA 70803

U.S. Navy Reserve Mid-Career and Senior Level Leadership Courses

WORK EXPERIENCE

Mar 2006 – Jan 2016 Director
Louisiana Transportation Research Center
4101 Gourrier Ave.
Baton Rouge, LA 70808

Accountable for the administration of LTRC. LTRC is the research, technology transfer and education & training division of LA DOTD with a program budget of \$14 million and a staff of 60-75. In addition, the LTRC

Director is also accountable for the administration of the Materials section of LA DOTD.

Jun 1996 – Mar 2006	Associate Director, Research Louisiana Transportation Research Center 4101 Gourrier Ave. Baton Rouge, LA 70808 Accountable for directing a \$6 million DOTD contract and in-house research and development program and for providing professional engineering assistance to DOTD highway and intermodal transportation areas. Also responsible for direction of all technical and administrative research and development activities.
Jun 1987-Jun 1996	Materials Research Manager LTRC Accountable for initiating, coordinating and administering the Materials Research Program including asphalt products, asphalt concrete, concrete and all structural materials; Develops research needs statements for both in-house and contract research with universities and other consultants, generating research contracts and for the surveillance of all contract research; Accountable for the coordination of all chemical research undertaken by the Materials Section of the Department.
Nov. 1982-Jun. 1987	Bituminous Research Engineer Louisiana DOTD Accountable for managing and directing the research program of the Bituminous Research Unit in the area of asphalt technology in accordance with formal research proposals or in response to department needs.
Jan. 1977-Nov. 1982	Assistant Bituminous Research Engineer, EIT II, EIT I Louisiana DOTD Assisted Bituminous Research Engineer in managing Bituminous Unit - accountable for minor research studies (\$75,000); investigated new products and procedures; developed and implemented research

findings through specifications.

Jul. 1976-Jan. 1977 GS-5 Mechanical Engineer
Philadelphia Naval Shipyard
Philadelphia, PA
Entry level position in the Design Department - Designed
shipboard piping systems, including air conditioning,

refrigeration and service piping.

REGISTERED PROFESSIONAL ENGINEER IN LOUISIANA - M.E. NO. 19248

PUBLICATIONS: 45+ state/national publications

PROFESSIONAL ORGANIZATIONS/COMMITTEE MEMBERSHIPS

National Associate Member, National Academies

Association of Asphalt Paving Technologists, Member (Board of Directors, 1996)

Louisiana Society of Professional Engineers in Civil Service (President-1986-88)

Association of Classified Employees (Vice President-1986-90)

AASHTO Research Advisory Committee, Past Chair (2013-2016)

AASHTO Research Advisory Committee, past Region II Chair (2004-2007)

AASHTO Standing Committee on Research, SCOR, Past Vice Chair (2013-2016)

Southern Plains Transportation Center Advisory Board, member

Baton Rouge Capitol Region Planning Commission, Tech Advisory Com, Chair

Association of Modified Asphalt Producers, Chair, DOT Advisory Board, past Chair

Transportation Research Board, National Research Council:

Division A

Member & Past Chair, Committee AFK10, now AKM10

Member, Committee Research Coordinators Council

Member, Task Force A0020T

Past Member & Chair, Asphalt Section, A2D00, now AFK00

Member, ABG20(05)

Past Member, Technical Advisory Committee, A0000

Past Chair, Division A Council, A0000

Past Chair, Group 2 Council, A2000

Past Member & Chair A2D03

Past Member of A2F02 and A2D04, ABG40, AHD18

Past Chair, TRB State Representative Advisory Panel

Member, AJE35

Past Chair, AJE35(3) Subcommittee

Division B

Past Member RTCC

Past Member NCHRP Synthesis Panel 44-07

Past Member NCHRP Synthesis Panel 46-03

Past Member of Three NCHRP Synthesis Topic Panels

Division D

Past Member, NCHRP Project 9-10, Expert Panel

Past Chair, NCHRP Project 10-63, Expert Panel

Member and Past Chair NCHRP 20-44

Past Member and Chair, NCHRP 20-68A

Past Member, NCHRP 20-83
Past Member, NCHRP 20-83(5)
Member and Chair, NCHRP 20-89
Member, NCHRP 20-91
Member and Chair NCHRP 9-60
Past Member, NCHRP 20-102(01)
Member, NCHRP 09-72

Division E

Past Member SHRP2 Panel R-21, Composite Pavements

Past Member, Joint Task Group 31, AASHTO - AGC - ARTBA on Specifications for Polymer Asphalts
Past Member, Expert Task Group SHRP A-004, Modified Asphalts
Past Member, FHWA Crumb Rubber Material Pooled Fund Study, Expert Panel
Past Member, FHWA Demonstration Project 89, Quality Assurance Expert Panel
Past Member C-P Technology Center Advisory Board
Past Member, FACA Potential Impacts of Climate Variability and Change on Transportation Systems and Infrastructure: Gulf Coast Study
Past Member, International Scan Team, Transportation Research Program Administration
Past Member, FHWA Sustainable Pavements Technical Working Group

AWARDS

Association of Asphalt Paving Technologists Board of Directors Award of Recognition, 2004
Transportation Research Board, The National Academies, W.N. Carey, Jr., Distinguished Service Award, 2013
Louisiana Civil Service League, Charles E. Dunbar, Jr., Career Service Award, 2016
Association of Modified Asphalt Producers, Lifetime Achievement Award, 2018
Association of Modified Asphalt Producers, Hall of Fame, 2018

MILITARY SERVICE

Aug. 1967 - Sept. 1979	Enlistment in U.S. Navy Reserve
Mar. 1971 - Dec. 1972	Active Duty - Naval Air Station, Bermuda
Sept. 1979	Honorable Discharge
Sept. 1979 – Aug 2009	Commissioned Officer, Navy Reserve Intelligence

Aug 16, 2009

Program
Retired Commission as Captain O-6

Awards: Navy Commendation Medal (3 awards)
National Defense Medal (2 awards)
Armed Forces Reserve Medal (4 awards)
Naval Reserve Meritorious Medal (3 awards)
Meritorious Voluntary Service Medal
Overseas Service Medal

Military Professional Organizations:

Naval Reserve Association (Life Member)
Naval Enlisted Reserve Association (Life Member)
Naval Academy Information Program Officer, Past Louisiana Area Coordinator

PUBLICATIONS

Paul, Harold R., "Evaluation of an Asphalt Treated Drainage Blanket in a Rigid Pavement Section", LA DOTD, Jan 1978.

Paul, Harold R., and Carey, Donald, "Laboratory Evaluation of Modified Asphalt", LA DOTD, Nov 1980.

Paul, Harold R., and Carey, Donald, "Hot Plant Recycling of Asphaltic Concrete Mixtures", LA DOTD, May 1980.

Paul, Harold R., and Carey, Donald, "Sulphur Extended Asphalt", LA DOTD, May 1980.

Paul, Harold R., and Carey, Donald, "Effects of Asphalt Cement Rejuvenating Agents", LA DOTD, Aug 1980.

Paul, Harold R., and Carey, Donald, "Surface Recycling U.S. 61 Norco-Jefferson Parish Line", LA DOTD, Aug 1980.

Paul, Harold R., and Carey, Donald, "Evaluation of Asphalt Cement Extraction and Recovery Methods", LA DOTD, Jun 1982.

Paul, Harold R., and Carey, Donald, "Quality Control of Recycled Asphaltic Concrete", LA DOTD, Jul 1982.

Paul, Harold R., "Identification and Quantification of the Extent of Asphalt

Stripping in Flexible Pavements - Phase I Laboratory Evaluation", Aug 1982.

Paul, Harold R., "Field Samples of Hot Mix as an Acceptance Procedure", LA DOTD, Dec 1983.

Paul, Harold R., "Identification and Quantification of the Extent of Asphalt Stripping in Flexible Pavements - Phase II Field Evaluation", Apr 1985.

Paul, Harold R., "Recycled Asphaltic Concrete Project Inventory", LA DOTD, Jan 1985.

Paul, Harold R., "Laboratory Evaluation of Trinidad Lake Asphalt", LA DOTD, May 1985.

Paul, Harold R., and Kemp, Sarah F., "Chemcrete Modified Asphaltic Concrete Field Trial - Construction and First Year Evaluation", Jun 1985.

Paul, Harold R., and Kemp, Sarah F., " Sprinkle Treatment Experimental Project - Construction and First Year Evaluation", Jul 1986.

Paul, Harold R., " Surface Recycling Route U.S. 71 - Construction and Initial Evaluation", LA DOTD, Aug 1986.

Paul, Harold R., "Chemcrete Modified Asphaltic Concrete Field Trial - Construction and Three Year Evaluation", Experimental Project No. 3 - Asphalt Additives, FHWA, June 1989.

Paul, Harold R., and Doucet, Roland J., Jr., "Sprinkle Treatment Experimental Project Construction and Three Year Evaluation," Demonstration Project No. 50, La DOTD, June 1989.

Mohammad, L.N., and Paul, H.R., "Evaluation of the Indirect Tensile Test for Determining the Structural Properties of Asphalt Mix -- Phase I," Interim Report, Federal Highway Administration, April 1991.

Mohammad, L.N., and Paul, H.R., "Evaluation of Indirect Tensile Test for Determining the Structural Properties of Asphalt Mix," Final Report, Federal Highway Administration, FHWA/SA/94/021, March 1992.

Mohammad, Louay N., and Paul, Harold R., "Evaluation of a New Indirect Tension Test Apparatus," Transportation Research Record No. 1353, 1993, pp.62-68, 1992.

Mohammad, L.N., and Paul, H.R., "Evaluation of the Indirect Tensile Test for

Determining the Structural Properties of Asphalt Mix," National Academy of Science, Transportation Research Record No.1417, 1993, pp. 58-63.

Mohammad, L.N., Paul, H.R., Foxworthy, P.T., and Seals, R.K., "A Dynamic Testing System for Pavement Materials Characterization and Performance Evaluation," Final Report, Louisiana Education Quality Support Funds, Board of Regents for Higher Education, State of Louisiana, July 1993.

Mohammad, L.N., and Paul, H.R., "A Parametric Evaluation of Fundamental Engineering Properties for Louisiana Hot Mix," Louisiana Transportation Research Center, Report No. 276, Baton Rouge, La., 1994.

Daly W., Mohammad, L.N., Negulescu, I., Paul, H. R., and Youngblood, J., "Fundamental Properties of Asphalt Rubber Blends," Proceedings of the ASCE 1994 Materials Engineering Conference, San Diego, California, November 13-16, 1994, pp. 425-431.

Paul, H.R. and Abadie, C., "I-10 Pavement Distress, Ramah - Westover, East & West Sections," Louisiana Transportation Research Center, Technical Assistance Report, Baton Rouge, LA, March 1995.

Paul, H.R., "Evaluation of Recycled Projects for Performance," Louisiana Transportation Research Center, Research Report No. 216, Baton Rouge, LA, March 1995.

Paul, H.R., "Investigation of Nuclear Asphalt Content Gauge," Louisiana Transportation Research Center, Research Report No. 226, Baton Rouge, LA, July 1995.

Paul, H.R., "Compatibility of Aggregate, Asphalt Cement and Antistrip Materials," Louisiana Transportation Research Center, Research Report No. 292, Baton Rouge, LA, December 1995.

Paul, H.R., "Investigation of Moisture Damage and Rutting on I-10," Journal of the Association of Asphalt Paving Technologists, Vol.65, 1996.

Paul, H.R., "Evaluation of Recycled Projects for Performance," Journal of the Association of Asphalt Paving Technologists, Vol.65, 1996.

Mohammad, L.N., and Paul, H.R., "Design of SMA Mixtures for an Orthotropic Bridge Deck Resurfacing," Proceedings of the Joint 18th Australian Road Research Board Transport Research Conference, Christchurch, New Zealand, September

1996, waiting publication.

Paul, H.R. and Scherocman, J.A., "Friction Testing of Tack Coat Surfaces," National Academy of Sciences, Transportation Research Record No. 1616, 1998, pp 6-12.

CONTRACT RESEARCH PROJECT MANAGEMENT

"Detection of Fly Ash in Portland Cement Fly Ash Concrete," Drs Eaton and Ferrell, LSU, \$121,566.

"Dynamic Responses to Wind and Wind Climate of the Luling-Destrahan Bridge," Dr. Sperry, Tulane University, \$361,714.

"Implementation of Diagnostic Testing in Bridge Maintenance," Dr. Aktan, LSU, \$90,000.

"Design Considerations for a Bridge Deck Joint Sealing System," Drs. Avent and Gopu, LSU, \$271,813.

"Engineering Properties of Brittle Repair Materials," Drs. Voyaidjis and Barzegar, LSU, \$171,520.

"Spacing and Cover of Epoxy Coated Prestressing Strand," Drs. Cousins and Gopu, LSU, \$111,831.

"Feasibility of Utilizing High Strength Concrete in Design and Construction of Highway Bridge Structures," Dr. Bruce, Tulane University, \$452,876.

"Development of Engineering Design Procedures for Heat Straightening Repair of Damaged Structural Steel in Bridges," Dr. Avent, LSU, \$124,989.

"Determination of Significant Factors Controlling Compatibility of Asphalt With Synthetic Polymers," Drs. Daly and Negulescu, LSU, \$227,598.

"Characterization of Asphalt Cements with Crumbed Rubber From Discarded Tires, Drs. Daly and Negulescu, LSU, \$110,296.

"Correlation of SHRP Asphalt Binder Test Equipment," Drs. Daly and Negulescu,

LSU, \$74,616.

"Enhancing and Standardizing Interaction of Rubber Particles with Asphalt," Drs. Daly and Negulescu, LSU, \$52,704.

"Evaluation of Louisiana's Statistically Based Quality Control and Acceptance Specifications," Drs. Metcalf, Mann and Ray, LSU, \$92,177.

"Evaluation of Modified Asphalt Using Chlorinated and Maleated Waste Polymers," Drs. Daly and Negulescu, LSU, \$94,845.