

PATRICK E. CARRIERE, Ph.D., P. E.

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Education

Ph.D.	<i>Civil Engineering</i> , Texas A&M University, August 1988
M.S.	<i>Agricultural Engineering</i> , Texas A&M University, August 1985
B.S.	<i>Civil Engineering</i> , Faculté des Sciences Appliquées, Haiti, September 1979

Employment History

7/10-Present	<i>Associate Dean/Director of Graduate Programs and Professor</i> College of Engineering and Computer Science, Southern University, Baton Rouge
7/08-7/10	<i>Associate Dean and Professor</i> College of Engineering, Southern University, Baton Rouge
9/04-8/05	<i>Program Director, National Science Foundation (NSF), Joint Divisions of Undergraduate Education and Engineering Education and Centers</i> , Arlington, Virginia
7/04-7/08	<i>Associate Dean for Research and Graduate Programs</i> College of Engineering, Southern University, Baton Rouge
5/00-Present	<i>Massie of Excellence Professor</i> Department of Civil Engineering, Southern University, Baton Rouge
5/99-8/08	<i>Professor and Chair</i> Department of Civil Engineering, Southern University, Baton Rouge
1/98-4/99	<i>Professor and Interim Chair</i> Department of Civil Engineering, Southern University, Baton Rouge
7/97-12/97	<i>Associate Professor</i> Department of Civil and Environmental Engineering, West Virginia University

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| 1/93-6/97 | <i>Assistant Professor</i>
Department of Civil and Environmental Engineering, West Virginia University |
| 8/92-12/92 | <i>Associate Professor</i>
Department of Civil Engineering, Texas A&M University, Kingsville |
| 9/88-7/92 | <i>Assistant Professor</i>
Department of Civil Engineering, Texas A&M University, Kingsville |
| 1/82-8/88 | <i>Research Assistant</i>
Texas A&M University, College Station |
| 10/79-12/81 | <i>Engineer District Director</i>
Ministry of Agriculture, Port-au-Prince, Haiti |

Registration

Professional Engineer, State of Texas, Serial # 70118

Honors, Awards, and Recognitions

- Received Engineering Faculty Professionalism Award
Year 2013, Louisiana Engineering Foundation.
- Received the Civil Engineering Most Outstanding Faculty Award of the
Year 00-01, Southern University.
- Received the Civil Engineering Most Outstanding Faculty Award of the
Year 99-00, Southern University.
- Received the Civil Engineering Outstanding Faculty Award of the
Year 98-99, Southern University.
- Received the College of Engineering Outstanding Young Researcher Award of
the Year 94-95.
- Nominated the Outstanding Young Researcher of the Year 94-95 by the
Department of Civil and Environmental Engineering.
- Member of Chi Epsilon, the National Civil Engineering Honor Society, April
1995 -present.
- Received numerous requests for copies of my papers from Researchers in the U.S.
as well as abroad (France, Poland, Austria, Czech Republic, Brazil, China,
Yugoslavia, and U.K).

- Received Award from Ravenswood Aluminum Corporation:
Amount of Award: \$ 37,400 (August 1994).
- Received Award from Alcoa Foundation: Amount of Award: \$7,500
(June 1994).
- Received Award from Alcoa Foundation Professional Development Program:
Amount of Award: \$16,000 (August 1993).
- Awarded *LETTER OF HONORABLE MENTION for ASCE Student Chapter* at
Texas A&M University in Kingsville (former Texas A&I) 1992.
- Awarded *LETTER OF SIGNIFICANT IMPROVEMENT for ASCE Student
Chapter* at Texas A&M University in Kingsville (former Texas A&I) 1992.
- Listed in Who's Who among International Students in American Universities, the
Most Outstanding Advisor (1989-1990).

Courses Taught and Developed

SOUTHERN UNIVERSITY (1/98-PRESENT)

Undergraduate

CIEN 325	Introduction to Environmental Engineering
CIEN 400	Engineering Seminar
MEN 400	Engineering Seminar
ELEN 408	Engineering Seminar
CIEN 421	Water and Wastewater Analysis
CIEN 461	Water Supply and Sewage
CIEN 462	Design of Water and Wastewater Treatment
CIEN 482	Senior Design 1
CIEN 483	Senior Design 2

Graduate

CIEN 577	Graduate Seminar
CIEN 512	Biological Wastewater Treatment
CIEN 599	Engineering Project
CIEN 600	Thesis

WEST VIRGINIA UNIVERSITY (1/93-12/97)

Undergraduate

CE 120	Fluid Mechanics
CE 147	Environmental Engineering
CE 251	Public Health

Graduate

CE 328	Groundwater Contaminant Transport
CE 349	Solid/Hazardous Waste Management
CE 355	Advanced Physicochemical Processes
CE 356	Principles of Biological Waste Treatment
CE 391A	Contaminated Site Remediation
CE 458	Design of Sanitary Works

TEXAS A&M UNIVERSITY IN KINGSVILLE (8/88 -12/92)

Undergraduate

CE 204	Statics
CE 212	Surveying
CE 311	Mechanics of Materials
ME 355	Dynamics
CE 344	Construction of Materials
CE 365	Environmental Engineering)
CE 367	Hydraulic and Environmental Lab
CE 392	Fluid Mechanics and Hydraulics
CE 462	Hydrology
CE 464	Water and Wastewater Conveyance
CE 467	Treatment of Industrial Liquid Wastes
CE 469	Transportation

Graduate

CE 501	Wastewater Treatment Processes
CE 515	Open-Channel Hydraulics
CE 555	Groundwater Hydrology
CE 568	Biological Waste Treatment

COURSES DEVELOPED

@ Southern University

CIEN 461	Water Supply and Sewage *(U)
CIEN 462	Design of Water and Wastewater Treatment *(U)
CIEN 577	Graduate Seminar * (G)
CIEN 512	Biological Wastewater Treatment* (G)

@ West Virginia University

CE 227	Water Resources Engineering (U)
CE 328	Groundwater Contaminant Transport * (G)
CE 349	Solid and Hazardous Waste Management* (G)
CE 427	Water and Wastewater Conveyance Systems (G)

**Course taught U= Undergraduate G = Graduate*

COURSES TAUGHT VIA LONG-DISTANCE LEARNING

CE 356	Biological Wastewater Treatment (Fall 1994)
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@ Texas A&M University in Kingsville

CE 464	Wastewater Conveyance Systems (U)
CE 501	Wastewater Treatment Processes (F90, F92) * (G)
CE 515	Open-Channel Hydraulics (Sp91, Sp92) * (G)
CE 555	Groundwater Hydrology (F89, F90, F92) * (G)
CE 568	Biological Waste Treatment (Sum91, Sum92)* (G)

Research Supervisor Activities

GRADUATE STUDENTS ADVISED AS "MAJOR PROFESSOR"

Name	Program	Title	Date of Graduation/ University
Razi Gaskari (Funded)	Ph.D.	Non-Point Source Pollution Modeling using GIS	May 2003 WVU
Eric Hartwell (Funded)	M.Sc.	Evaluation of Performance of Effluent Filter in Septic Tanks	May 1997 WVU
Chris Cunningham (Funded)	M.Sc.	Biodegradation of TCE in Microcosms under Anaerobic Conditions	May 1997 WVU
Balla Ushashree (Funded)	M.Sc.	Modeling of TCE Transport at DOE Site of and Groundwater Remediation Alternatives	December 1996 WVU
Babu Madabhushi (Funded)	Ph.D.	Enhancement of InSitu Bioremediation of Soil Contaminated with PAHs by Using Surfactant	December 1997 WVU
Diedra Venters (Funded)	M.Sc.	Hydraulic Performance of Hydraulic of Barrel Culvert Systems	December 96 WVU
Joe Woodford (Funded)	M.Sc.	Removal of Radionuclides using GAC column	December 96 WVU
Noel Mathews (Funded)	M.Sc.	Evaluation of Performance of Wetlands for Treatment of Industrial Wastewater	December 96 WVU
Elbadie Yasser (Funded)	M.Sc.	Enhancement of Bioremediation of Creosote Contaminated Soil using Anionic Surfactants	December 96 WVU
Gary Roark (Non-Funded)	M.S.E	Pilot Scale Technologies Evaluation for Treatment of Industrial Wastewater	September 96 WVU
Jeff Brooks (Funded)	M.Sc.	Removal of Oil and Grease using a Pilot-Scale Biological Aerated Filters	September 96 WVU
Razi Gaskari (Funded)	M.Sc.	Virtual Absorber System for Removal of Lead	September 96 WVU
Sunitha Ravi (Funded)	M.Sc.	Enhancement of Bioremediation using Nonionic Surfactants	September 96 WVU
Tim Lorkowski (Funded)	M.Sc.	Removal of Oil and Grease using a pilot-scale land treatment	September 96 WVU

Continued

Name	Program	Title	Date of Graduation/ University
Sowmya Raman (Funded)	M.Sc	Bioremediation of Chlorinated Solvents in Aerobic and Simultaneous Anaerobic-Aerobic Column Systems	May 96 WVU
Langtong Zhai (Funded)	M.Sc.	Tracer Study in a Pilot-Scale constructed wetlands	December 95 WVU
Fehmidakhatus Mesania (Funded)	M.Sc.	Kinetics of Biodegradation of Creosote of Contaminated Soils	December 95 WVU
Ken Dudash (Non-Funded)	M.Sc	Site Investigation of Creosote Contaminated Soil at Timber Bridges Sites	May 95 WVU
Mahboub Maahlim (Partially Funded)	M.Sc.	Influence of Contaminant Concentration on Biological Growth	August 92 Texas A&M- Kingsville
Akter Kamal (Partially Funded)	M.Sc	Removal of Lead from Wastewater by Powdered Activated Carbon	August 92 Texas A&M- Kingsville
Mohammed Faruqi (Partially Funded)	M.Sc.	Effect of Acid Waste on Limestone Bed	May 91 Texas A&M- Kingsville
Salam R. Hasan (Partially Funded)	M.Sc	Feasibility Study of Wastepaper Recycling	December 90 Texas A&M- Kingsville
Bahmam Abbassi (Partially Funded)	M.Sc.	Development of Settling Characteristics Curve for Design of Sedimentation Tank	August 90 Texas A&M- Kingsville
Mohammed Ali Kalifa (Not Funded)	M.Sc.	Rainfall-Runoff Models Using Simulated Rainfall	August 90 Texas A&M- Kingsville

MEMBER ON GRADUATE STUDENT ADVISORY COMMITTEE

West Virginia University (1/93-12/97)

Name	Department	Degree	Date of Graduation
Bora Kutuk	Civil Engineering	Ph.D.	December 1997
Tim Dunaway	Civil Engineering	M.Sc.	December 1996
Richard Tomicek	Civil Engineering	M.Sc.	December 1996
Amy Nottingham	Civil Engineering	M.Sc.	December 1996
James Mosley	Civil Engineering	M.Sc.	December 1996
Douglas Szabo	Civil Engineering	M.Sc.	September 1996
Dong-Hee Kim	Civil Engineering	M.Sc.	September 1996
Christopher Dunn	Civil Engineering	M.Sc.	May 1996
Xiaofan Zhu	Civil Engineering	M.Sc.	May 1996
Mike Davis	Civil Engineering	M.Sc.	May 1996
Chad Whiteman	Civil Engineering	M.Sc.	May 1996
Joan Cuddeback	Civil Engineering	M.Sc.	December 1995
Ramesh Gadde	Petroleum Eng.	M.Sc.	December 1995
Joe Ramsey	Civil Engineering	M.Sc.	May 1995
Keith Rinkus	Civil Engineering	M.Sc.	December 1995
Russell Flowes	Civil Engineering	M.Sc.	December 1995
Maqbul Jamil	Civil Engineering	Ph.D.	December 1995
Christopher Gray	Civil Engineering	M.Sc.	December 1994
Mark Loving	Civil Engineering	M.Sc.	May 1994
Rick Wilson	Civil Engineering	M.Sc.	May 1994
John Thompson	Civil Engineering	M.Sc.	May 1994
Jarrold Hatfield	Civil Engineering	M.Sc.	May 1994
Rachel Brown	Civil Engineering	M.Sc.	May 1994
Moo-Kab Chun	Civil Engineering	Ph.D.	May 1994
Rod Moore	Civil Engineering	M.Sc.	December 1993
Mohamed Lahlou	Civil Engineering	M.Sc.	June 1993
Steve Cline	Civil Engineering	M.Sc.	May 1993

Publications

ARTICLES IN REFEREED PROFESSIONAL/TECHNICAL JOURNAL AND CONFERENCE PROCEEDINGS

Pimmel, R., Kemnitzer, S., Carriere, P. E., Addressing NSF Broader Impacts Criterion in a Curriculum Development Project, ***35th ASEE/IEEE Frontiers in Education Conference***, October 19-22, 2005, Indianapolis, IN

Theegala, C.S., Robertson, C., Carriere, P.E., Suleiman, A.A., Phytoremediation Potential and Toxicity of Barium to Three Freshwater Microalgae: *Scenedesmus subspicatus*, *Selenastrum capricornutum*, and *Nannochloropsis* sp. ***ASCE - Practice Periodical of Hazardous, Toxic and Radioactive Waste Management***, Vol 5, No.4, pp 194-202, 2001.

Pennel K., and P.E. Carriere, "Groundwater Quality," ***Water Environment Research***, (807-895), June 1998

Reed, B.E., G. Roark, P.E. Carriere, Design and Implementation of a Treatment System for an Aluminum Manufacturer's Oily Wastewater, ***1998 Pollution Prevention in the Aluminum Industry Workshop***, October 1998, Cincinnati, Ohio.

Zhu, X., B.E. Reed, P.E. Carriere, and G. Roark, Investigation of Several Polymers for the Treatment of an Emulsified Oil, ***Separation Science and Technology***, 32 (13), 2173-2187, 1997.

Reed, B.E. W. Lin, P.E. Carriere, C. Dunn, and G. Roark, Treatment of an Oil/Grease Wastewater Using Ultrafiltration I, ***Separation Science and Technology***, 32 (9), 1493-1511, 1997.

Mayer, A., P.E. Carriere and R. J. Mitchell, "Groundwater Quality," ***Water Environment Research***, 68(4) 662-719, 1997

Carriere, P.E., S. Mohaghegh, and R. Gaskari: Performance of a Virtual Runoff Hydrograph System, ASCE, ***Journal of Water Resources Planning and Management***, 122(6), 1996.

Carriere, P.E., and F.A. Mesania: Enhanced Biodegradation of Creosote-Contaminated Soil, ***Journal of Waste Management***, 15 (8), 1996.

Reed, B.E., P.E. Carriere, J.C. Thompson, and J.H. Hatfield: Electrokinetic Remediation of a Contaminated Soil at Several Pb Concentrations and Applied Voltages, ***Journal of Soil Contamination***, 5 (2) 95-120, 1996

- Mayer, A., P.E. Carriere and R. J. Mitchell, "Groundwater Quality," ***Water Environment Research***, 68(4) 662-719, 1996
- Reed, B.E, P.E. Carriere, and R. Moore, " Soil Flushing of A Pb(II) Contaminated Sandy Loam Using HCL, EDTA Solutions," ***ASCE, Journal of Environmental Engineering***, 122 (1) 48-50, 1996
- Carriere, P.E, S, Mohaghegh, R. Gaskari, B. Reed, and M. Jamil: Performance of a Virtual Absorber System for Removal of Lead, Separation ***and Science Technology***, 31(7), 111-124, 1995.
- Carriere, P.E, B.E. Reed, and S.R. Cline "Retention and Release of Lead by a Silty Loam and a Fine Sandy Loam. II Kinetics", ***Separation Science and Technology Journal***, 30(18), pp. 3479-3495, 1995
- Mayer, A., R. J. Mitchell, and P.E. Carriere, "Groundwater Quality," ***Water Environment Research***, 67(4) 629-685, 1995
- Wurbs, R.A. and P.E. Carriere, "Hydrologic Simulation of Reservoir Storage Reallocation," ***International Journal of the Water Resources Development***, Vol. 9 no.1, March 1993.
- Reed, B.E, P.E. Carriere, and M.R. Matsumoto, " Effect of Nutrient: Applying Sludge on Agricultural Land," ***Biocycle, Journal of Waste Recycling***, July 1991.
- Wurbs, R.A. and P.E. Carriere, "Management Strategies for Increasing Reservoirs Yields," ***Water International***, Vol. 15 no.3, September 1990.

ARTICLES IN REFEREED CONFERENCE PROCEEDINGS

Chen , X, Carriere, P. and Lacy, Fred, L. “**Stochastic optimization of space-time constellations,**” Proc. SPIE Conferences, Baltimore, Maryland, April 2015

Chen , X., , Fred, L, and Carriere, P “**An exact computational method for performance analysis of sequential test algorithms for detecting network intrusions,**” Proc. SPIE Conferences, Baltimore, Maryland, April 2015

Carriere, P.E, W.A. Sack, S. Raman, M.davis, and T. Mackey: "Biodegradation of TCE in Anaerobic/Aerobic Column studies" 28th Mid-Atlantic Industrial and Hazardous Waste Proceedings, July 1996.

Lorkowski, T., P.E. Carriere, and B.E. Reed: An Evaluation of Oily Waste Treatment by Pilot-Scale Land Treatment System, 28th Mid-Atlantic Industrial and Hazardous Waste Proceedings, July 1996.

- Carriere, P.E, and F.A. Mesania: "Enhancement of Bioremediation of a Creosote-Contaminated Soil" Hazardous Materials Control Resources Institute, Superfund XVI Proceedings, November 1995
- Reed, B.E, P.E. Carriere, and M. Jamil:"Treatment of Organic/Heavy Metal Wastewater using Granular Activated Carbon Columns" Hazardous Materials Control Resources Institute, Superfund XVI Proceedings, November 1995
- Carriere, P.E., S.D. Mohaghegh, and B. Madabhushi: Removal of Volatile Organic Compounds Using Biofilters 27th Mid-Atlantic Industrial and Hazardous Waste Proceedings, July 1995.
- Carriere, P.E., B.E. Reed, and J. Brooks:"Treatment of a Dilute Waste Oil Emulsion from an Aluminum Rolling Mill by a Biological Aerated Filter"27th Mid-Atlantic Industrial and Hazardous Waste Proceedings, July 1995.
- Carriere, P.E, and F.A. Mesania: "Enhanced Biodegradation of Creosote Contaminated Soil Using a Nonionic Surfactant" 27th Mid-Atlantic Industrial and Hazardous Waste Proceedings, July 1995.
- Sack, W., P.E. Carriere, and C. Whiteman, "InSitu Bioremediation of Chlorinated Solvents" 27th Mid-Atlantic Industrial and Hazardous Waste Proceedings, July 1995.
- Reed, B.E., P.E. Carriere, and C. Dunn: "Treatment of Aluminum Coolant Using a Pilot-Scale Ultrafiltration" 27th Mid-Atlantic Industrial and Hazardous Waste Proceedings, July 1995.
- Reed, B.E., M. Jamil, P.E. Carriere, and B. Thomas "Treatment of Organic/Heavy Metals Wastewaters Using Activated carbon Columns" 27th Mid-Atlantic Industrial and Hazardous Waste Proceedings, July 1995.
- Reed, B.E, P.E. Carriere, X. Zhu, and T. Lorkowski: Treatment of a Dilute Waste Oil Emulsion by Chemical Addition/Dissolved Air Flotation" 27th Mid-Atlantic Industrial and Hazardous Waste Proceedings, July 1995.
- Carriere, P.E. et al., "Evaluation of Biodegradation Rate Constants of Creosote-Contaminated Soils", 26th Mid-Atlantic Industrial and Hazardous Waste Proceedings, August 1994.
- Carriere, P.E. et al., "Effect of Empty Bed Contact Time On Pb Removal By Granular Activated Carbon", 26th Mid-Atlantic Industrial and Hazardous Waste Proceedings, August 1994.
- Sack, W, P.E. Carriere, and A Shiemke, "Anaerobic-Aerobic In Situ Bioromediatio n of Organic Solvents", 26th Mid-Atlantic Industrial and Hazardous Waste Proceedings, August 1994.
- Carriere,P.E. and R.A. Wurbs, "Seasonal Rule Curve Reservoir Operation in Texas,"Proceedings of the Conference on Hydrology of Floods and Watershed Systems, American Water Resources Association Proceedings, May 1992.

- Carriere, P.E., B.E. Reed and M.A. Faruqi, "Effect of Acid Waste on Limestone Bed," 9th Annual HAZTECH International Proceedings, May 1991.
- Reed, B.E, P.E. Carriere, and S.K. Nonavinakere," Adsorption of Cadmium and Nickel By Three Commercial Activated Carbon," 9th Annual HAZTECH International Proceedings, May 1991.
- Reed, B.E, P.E. Carriere, M.R. Matsumoto, and A.S. Weber," Use of Metal Adsorbing Compounds to mitigate Adverse Effects on a Biological SBR Process," 8th Annual HAZTECH International Proceedings, February 1991.
- Carriere, P.E. and R.A. Wurbs,"Storage Reallocation Evaluation for Reservoir System," Optimizing the Resources for Water Management, (edited by R.M. Khanbilvardi and T.C. Gooch), ASCE, Water Resources Planning and Management Division and Water Resources Infrastructure Symposium Proceedings, April 1990.
- Carriere, P.E., R.A. Wurbs, and C.E. Bergman, "Brazos River Basin Reservoir System Simulation," Proceedings of the Six World Congress on Water Resources, International Water Resources Association, Ottawa, Canada, May 1988.

RESEARCH AGENCY PUBLICATIONS

- Wurbs, R.A., and P.E. Carriere, "Evaluation of Storage Reallocation and Related Strategies for Optimizing Reservoir System Operations," Texas Water Resources Institute, TR 144, August 1988.
- Wurbs, R.A., C.E. Bergman, P.E. Carriere and W.B. Walls, "Hydrologic and Institutional Water Availability in the Brazos River Basin," Texas Water Resources Institute, TR 145, August 1988.

RESEARCH REPORTS

- Carriere, P., " Flat Lake Water Management Units", Preliminary Planning and Investigation Studies in the Atchafalaya Basin
- Carriere, P., " Henderson Lake Water Management Units", Preliminary Planning and Investigation Studies in the Atchafalaya Basin
- Carriere, P., "Buffalo Cove, Beau Bayou, and Cocodrie Swamp", Preliminary Planning and Investigation Studies in the Atchafalaya Basin
- Carriere, P., W. Sack,W., and A. Shiemke, " In Situ Bioremediation of Organics Contaminants", Quarterly Technical Report , DOE contract No: DE-FC21-92MC29467, September 1996.

Carriere, P., "Investigation on Hydraulic Performance of Barrel Culverts, Final Report June 1996.

Carriere, P., W. Sack, W., and A. Shiemke, " In Situ Bioremediation of Organics Contaminants", Quarterly Technical Report , DOE contract No: DE-FC21-92MC29467, June 1996.

Carriere, P. and B.E. Reed, " Pilot-Scale Study of Wastewater Treatment Alternatives", Quarterly Technical Report, DOE contract No: 8235-229-3201, June 1996.

Carriere, P., W. Sack, W., and A. Shiemke, " In Situ Bioremediation of Organics Contaminants", Quarterly Technical Report , DOE contract No: DE-FC21-2MC29467, March 1996.

Carriere, P. and B.E. Reed, " Pilot-Scale Study of Wastewater Treatment Alternatives", Quarterly Technical Report, DOE contract No: 8235-229-3201, March 1996.

Carriere, P., W. Sack, W., and A. Shiemke, " In Situ Bioremediation of Organics Contaminants", Quarterly Technical Report , DOE contract No: DE-FC21-92MC29467, December 1995.

Carriere, P. and B.E. Reed, " Pilot-Scale Study of Wastewater Treatment Alternatives", Quarterly Technical Report, DOE contract No: 8235-229-3201, December 1995.

Carriere, P., W. Sack, W., and A. Shiemke, " In Situ Bioremediation of Organics Contaminants", Quarterly Technical Report , DOE contract No: DE-FC21-92MC29467, September 1995.

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Carriere, P., W. Sack, W., and A. Shiemke, " In Situ Bioremediation of Organics Contaminants", Quarterly Technical Report , DOE contract No: DE-FC21-92MC29467, June 1995.

Carriere, P. and B.E. Reed, " Pilot-Scale Study of Wastewater Treatment Alternatives", Quarterly Technical Report, DOE contract No: 8235-229-3201, June 1995.

Carriere, P., W. Sack, W., and A. Shiemke, " In Situ Bioremediation of Organics Contaminants", Quarterly Technical Report , DOE contract No: DE-FC21-92MC29467, March 1995

Carriere, P. et al., " Pilot-Scale Study of Wastewater Treatment Alternatives", Quarterly Technical Report, DOE contract No: 8235-229-3201, March 1995.

- Carriere, P. and B.E. Reed, " Pilot-Scale Study of Wastewater Treatment Alternatives", Quarterly Technical Report, DOE contract No: 8235-229-3201, December 1994.
- Carriere, P. and S. Mohaghegh, " Treatment of VOCs removal Using Biological Activated Carbon Columns", Quarterly technical Report, DOE contract No: DE-FC21-92MC29467, December 1994.
- Carriere, P. and S. Mohaghegh, " Treatment of VOCs removal Using Biological Activated Carbon Columns", Quarterly Technical Report, DOE contract No: DE-FC21-92MC29467, September 1994.
- Carriere, P., W. Sack, W., and A. Shiemke, " In Situ Bioremediation of Organics Contaminants", Quarterly Technical Report , DOE contract No: DE-FC21-92MC29467, September 1994.
- Carriere, P. and B.E. Reed, " Pilot-Scale Study of Wastewater Treatment Alternatives", Quarterly Technical Report, DOE contract No: 8235-229-3201, August 1994.
- Carriere, P. and S. Mohaghegh, " Treatment of VOCs removal Using Biological Activated Carbon Columns", Quarterly Technical Report, DOE contract No: DE-FC21-92MC29467, April 1994.
- Carriere, P. W. Sack, and A. Shiemke, " In Situ Bioremediation of Organic Contaminants", Quarterly Technical Report, DOE contract No: DE-FC21-92MC29467, April 1994.
- Carriere, P. and S. Mohaghegh, " Treatment of VOCs removal Using Biological Activated Carbon Columns", Quarterly Technical Report, DOE contract No: DE-FC21-92MC29467, January 1994.
- Carriere, P., W. Sack, and A. Shiemke, " In Situ Bioremediation Of Organic Contaminants", Quarterly Technical Report, DOE contract No: DE-FC21-92MC29467, January 1994.
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Funded Research

Research Title	Granting Agency	Date/ Duration	Award amount
Summer Transportation Institute Program (Carriere, PI)	Federal Highway Administration	4/02-12/15	\$650,000
Detection and Sensing of Environmental Chemical Substances	DOE	9/10- 9/15	\$1,361,671.00
HBCU IDIQ Contract for Planning Investigations, Studies and Project Management Services in South and South Central Louisiana	USACE	-	4.5M
HBCU IDIQ Contract for Planning Investigations, Studies and Project Management Services in South and South Central Louisiana	USACE	-	\$1.5M
Feasibility Study of Waste Treatment Academic Training Center	DEQ Agency	-	\$237,000
Improving Proposal Submissions to NSF through the S-STEM Program	NSF	2008-2009	\$99,991
Enhancing The Quality of NSF Proposals from Engineering and Computer Science Accredited Minority Serving Colleges and Universities	NSF	2007-2008	\$205,673
Preliminary Planning and Investigation for the Henderson Lake Management (Stubblefield, PI. Carriere, Co-PI)	US Army Corps of Engineers- New Orleans	8/05 – 4/06	\$230,000
Preliminary Planning and Investigation for the Flat Lake Management (Stubblefield, PI. Carriere, Co-PI)	US Army Corps of Engineers- New Orleans	8/04 – 4/05	\$250,000
Southern University Transportation Institute (Carriere, PI and Weatherton)	CN	1/03/-1/06	\$150,000
Enhancing Environmental Research at Southern University	Board of Regents	6/01-6/02	\$100,000
Establishment of a Phytoremediation Research lab (Carriere, PI and Theegala)	Board of Regents	6/01-6/02	\$108,397
Dwight Eisenhower Transportation Fellowship (Carriere, PI)	Federal Highway Administration	7/01-7/05	\$90,000

Summer Transportation Institute Program (Carriere, PI)	Federal Highway Administration	4/01-01/02	\$43,711
Development of SU/LSU Joint Engineering Research and Education in Materials and Materials Testing (with Carriere, PI and Seals LSU)	NSF/LEQSF	9/99-9/01	\$460,000
Summer Transportation Institute Program (Carriere, PI)	Federal Highway Administration	4/99-01/00	\$32,711
Biological Response and Availability of Desorption Resistant Pollutants (with Suleiman,PI ,Theegla, and Carriere)	Department of Defense	9/98 – 9/00	\$342,405
Automatic of Input Paramters for hydrologic modeling using GIS (Carriere, PI and Dean)	West Virginia Division of Highways	5/1/97-4/30/99	\$150,358.10
Evaluation of Effluent Filter in Septic Tanks (with Carriere, PI, Gabr Sack)	Infiltrator Systems, Inc	9/96- 9-97	\$22,300
In Situ Bioremediation of Chlorinated Solvents (with Carriere, PI, Sack and Lin)	Department of Energy	3/96 - 12/96	\$68,553
Remediation of Hydrocarbons Contaminated Soils (with Reed, PI, Carriere, and Martinelli)	WV Dept of Highways	3/95-3/96	\$74,590
Hydraulic Performance of Culvert Systems (Carriere,PI)	WV Dept. of Highways	3/31/94 - 3/20/96	\$ 36, 809.10
Pilot-Scale Study of Wastewater Treatment alternatives (with Carriere, PI, Reed and Martinelli)	Ravenswood Aluminum Corporation	1/94- 5/96	\$ 134,500
In Site Bioremediation of Chlorinated Solvents (with Sack ,PI, and Carriere)	Department of Energy	1/94 - 5/95	\$97,000
Removal of VOCs using Biofilters(with Mohaghegh, PI and Carriere)	Department of Energy	1/94 - 12/94	\$64,500
Removal of Heavy Metals, Organics, and Radionuclides usin GAC (with Reed, PI, and Carriere)	Department of Energy	1/94 - 12/94	\$72,176

Service Activities

PARTICIPATION IN PROFESSIONAL ACTIVITIES

- Attended 2014 ERC Workshop Summit and Forum, March 17-19, 2014
- Participated in Panel Review for NSF (2003 to 2014)
- Reviewed papers for ASCE Journal (2000 to 2013)
- Attended National ASCE Conference (2001 to 2014)
- Member of Levee Board Nominating Committee (2012-Present)
- Member of Association of Environmental Engineering Professors (AEEP).
- Member of CHI EPSILON.
- Member of the National Groundwater Association (NGWA)
- Member of the American Society of Civil Engineers (ASCE).
- Member of the National Society of Black Engineers (NSBE)
- College Marshall (May 1995, 1994), West Virginia University
- Hosted **4 ASCE Corpus Christi Branch Annual Meetings** (89, 90, 91, 92)
- Hosted **1991 ASCE Texas Fall Meeting at South Padre Island, Texas**
- Visited U.S Corps of Engineers, Vicksburg to discuss research opportunities for SU College of Engineering Faculty (April 1999)
- Visited U.S Corps of Engineers, New Orleans to discuss research opportunities for SU College of Engineering Faculty (May 2010)
- Visited LA Office of Emergency Preparedness, Baton Rouge to discuss research opportunities for SU College of Engineering Faculty (June 1999)
- Visited LA Board of Regents Civil Engineering (April 1999)
- Met with IT Corporation to discuss research opportunities for College of engineering Faculty (1998-1999)
- Visited Louisiana Transportation Research Center (LTRC) to discuss research opportunities for Civil Engineering Faculty (1998-1999)
- Supervised MURE/NASA undergraduate students research (Fall 1998 and Spring 1999)

- Attended Technical Qualifications Program Workshop, North Carolina (May 1998)
- Attended Joint Faculty Appointments Program Workshop (March 1999)
- Attended Southeastern Civil Engineering Departmental Chairs, North Carolina, Fall 1998.

COMMITTEE RESPONSIBILITIES

@ Southern University

- Chair, **University Assessment Committee**, 2015-Present
- Chair, **Institutional Research Oversight Committee**, 2007-Present
- Coordinator, **College of Engineering Program Assessment** 2009-Present
- Member, **University Assessment Committee**, 2013-2015
- Member, **University Research Council**, 2010-Present
- Member of **University Strategic Planning Committee**, 2014-Present
- Member of **University Curriculum Committee** 2005-Present
- Member of **University Graduate Council** 2003-Present
- Member of **University and College SACS Committee**, 2012-2013
- Program Chair, **ASEE-GSW**, March 15-17, 2006, Southern University, Baton Rouge
- Coordinator, **Mock ABET Visit**, Spring 2003
- Coordinator, **ABET workshop**, Fall 2002
- Co-Chair, WIN/Mount Pilgrim “Vision for A Scenic Highway” Committee, Baton, Rouge Louisiana, 2002- Present
- Co-Chair, **AMIE Conference**, September 2001.
- Chair of **Search Committee for Environmental Toxicology Ph.D. Program Director**, October 2000.
- Chair of **Master of Engineering Planning Committee**, October 1998-2001.
- Member of **University SACS Committee**, 1999-2000
- Member of College of Engineering **Strategic Planning** Committee, 1999-Present.

- Member of **University Catalog Committee** 1999-2010
- Project Director of **Summer Transportation Institute Program**, 1999-Present
- Coordinator, **Eisenhower Fellowship Program**, 1999- 2010

@ Texas A&M University In Kingsville

- **Faculty Advisor of the ASCE Student Chapter** (89-92).
- **Coordinator and Founder of the Paper Recycling Program** (89-92).
- **Academic Director of the Pre-freshman Engineering Program** (90-92).
- **Member of the College of Engineering Curriculum Committee** (90-92).
- **Member of the M.S. Environmental Engineering Oversight Committee** (90-92)
- **Member of the South Texas Water Resources Institute Committee** (91-92)
- **Member of the HBCU/MI Environmental Restoration/Waste Management Consortium Committee (DOE)**, appointed by Dr. Ibanez, University President (90-92)
- **Member of the Self-Study Steering Committee**, appointed by Dr. Ibanez, University President (92)

@ West Virginia University

- Member of **Awards Committee** (1994-1997)
- Member of **African and Black Americans Council** appointed by Dr. Bucklew, WVU President and reappointed by Dr. David Hardesty, WVU President. (1994-1997)
- Member of the **Center for Virtual Operations Research** (1994 -1997)
- Member of **CEE Promotion and Tenure Committee** (1994-1995)
- **Co-Faculty Advisor** for WVU Student Chapter of **CHI EPSILON**, the Civil Engineering Honorary Society (1995-1997)
- Member of **Search Committee for Civil and Environmental Engineering Chair**, October 1996.