

Curriculum Vitae

Robert Warren Whalin, Ph.D., P.E., D.CE

Education

- Ph.D. Texas A&M University, College Station, Texas, 1971
Major: Physical Oceanography (Civil Engineering, Mathematics)
- M.S. University of Illinois, Urbana, Illinois, 1961
Major: Physics (Mathematics)
- B.S. University of Kentucky, Lexington, Kentucky, 1959
Major: Physics (Mathematics)

Professional License

Registered Professional Engineer (Certificate No. E-21308, Wisconsin), 1982-Present

Security Clearance

Top Secret- Active

Membership in Professional Societies

American Society of Civil Engineers (Life)	National Defense Industrial Association
Coastal, Oceans, Ports and Rivers Institute	Society of American Military Engineers
American Society for Engineering Education	Tsunami Society
Army Engineer Association	Mississippi Engineering Society
Association of the United States Army (Life)	National Society of Professional Engineers
Engineers Without Borders	Order of the Engineer

Honorary Fraternities

Phi Eta Sigma (University of Kentucky), Phi Kappa Phi (Texas A&M University) & Sigma Xi (WES Chapter)

Major Personal Awards

President's High Grant Award, Jackson State University, 2015
Diplomate, Coastal Engineering (D.CE), Academy of Coastal, Ocean, Port and Navigation Engineers, 2014-present
Director Emeritus, US Army Engineer Research and Development Center, 2010-present
Legacy Achievement Award, Shock and Vibration Information Analysis Center, 2010
\$1,000,000 Grantsmanship Award, Jackson State University, 2004, 2005
STARG Group Research Award, Jackson State University, 2004
Department of the Army Exceptional Civilian Service Award, 2003
Department of the Army Meritorious Civilian Service Award (2nd Oak Leaf Cluster), 2003
Meritorious Executive Presidential Rank Award, 2002 (President Bush)
Silver Order of the DeFluery Medal, 1998
Department of the Army Meritorious Civilian Service Award (Oak Leaf Cluster), 1998
Distinguished Executive Presidential Rank Award, 1994 (President Clinton)
Department of Army Award for Outstanding Achievement in Equal Employment Opportunity, 1993
Department of Army Meritorious Civilian Service Award, 1993
Meritorious Executive Presidential Rank Award, 1987 (President Reagan)
Department of Army Award for Outstanding Achievement in Equal Employment Opportunity, 1984
Corps of Engineers Award for Outstanding Achievement in Equal Employment Opportunity, 1984
Exceptional Performance Rating, 1983 - 2003
Performance Bonus, 1983 - 2003

Major Organizational Awards (under my leadership)

ABET Reaccreditation Awarded for JSU B.S. School of Engineering Programs, 2013 (3EAC, 1CAC)
ABET Accreditation Awarded three JSU B.S. Engineering Programs, 2007 (retroactive to Oct. 2004)
Army Laboratory of Excellence Award, Army Research Laboratory, 1999
Army Laboratory Organization of the Year Award, Waterways Experiment Station, 1998
Army Laboratory Organization of the Year Award, Waterways Experiment Station, 1997
Army Laboratory Organization of the Year Award, Waterways Experiment Station. 1996

Army Laboratory Organization of the Year Award, Waterways Experiment Station. 1992
 Army Laboratory of Excellence Award, Waterways Experiment Station, 1988
 Army Laboratory of Excellence Award, Waterways Experiment Station, 1987
 U S Army Corps of Engineers Annual Trophy for Achievement in Equal Employment Opportunity,
 Waterways Experiment Station, 1998, 1997, 1994, 1993, 1992
 National Historic Civil Engineering Landmark, Waterways Experiment Station (first laboratory so
 designated by the American Society of Civil Engineers).

Employment Chronology

Education Director, Coastal Resilience Center of Excellence and Professor of Civil Engineering, Jackson State University, Jackson, MS (Jan. 2016-present). Serve as Education Director for the University of North Carolina (under subcontract) Coastal Resilience Center (CRC) of Excellence sponsored by Office of University Programs, Department of Homeland Security. I coordinate education activities at seven universities for the UNC CRC and manage one of them at Jackson State University. I teach graduate and undergraduate coastal engineering courses in the Civil and Environmental Engineering Department and currently advise four M.S. students and two PhD students. I am in the process of developing a coastal engineering concentration (as part of the CRC) for a PhD Engineering degree program approved for JSU.

Director, Coastal Hazards Center of Excellence (Education) and Professor of Civil Engineering, Jackson State University, Jackson, MS (Jan. 2013-Dec. 2015). As Director and Principle Investigator of the Department of Homeland Security Coastal Hazards Center (Education) of Excellence, I was responsible for leadership of the nominally \$1,000,000/year Cooperative Agreement. I had five university subcontractors and partnerships with another university, a government laboratory, two private corporations and three local School Districts. A Coastal Engineering track was developed for the BS Civil Engineering program and two concentrations (Coastal Engineering and Computational Engineering) were developed and implemented for the MS Engineering degree program. All are focused on coastal natural disasters. I help facilitate recruitment, acceptance, scholarships, assistantships, administrative activities, adjunct professors, committee formation, and graduation milestones with Chairs, College Dean, Dean of the Graduate School and Provost for these two concentrations. I teach largely Coastal Engineering courses for the Civil and Environmental Engineering Department. I was advisor for four students who graduated in the MS Engineering, Coastal Engineering concentration.

Associate Dean, College of Science, Engineering and Technology (CSET) and Professor of Civil Engineering, Jackson State University, Jackson, Mississippi (March 2003 – Jan. 2013)
 Responsible for leadership of the School of Engineering, including all aspects of teaching, research and service. The School of Engineering consists of three departments: Civil and Environmental Engineering, Computer Engineering, and Computer Science, offering BS degrees in Civil Engineering, Computer Engineering, Electrical Engineering, Telecommunications Engineering and Computer Science, and the MS degree in Computer Science and in Engineering with areas of concentration in Civil Engineering, Coastal Engineering, Environmental Engineering, Electrical Engineering, Computer Engineering, Computational Engineering, Telecommunications Engineering, and Geological Engineering. The School of Engineering has approximately 600 students, 27 full-time faculty, and nominally **\$5,000,000 to \$9,000,000** annually (increased from about \$500,000 in 2003) in research grants/contracts/cooperative agreements. Serve as Director and Principle Investigator, Coastal Hazards Center of Excellence (Education), sponsored by the U.S. Department of Homeland Security (July 1, 2008- present). Served as Director of Engineering Graduate program. (July 2009-2013). Upon assuming Associate Dean's position in March 2003, energies were focused on graduating the first engineer (May 2005), applying for and gaining ABET accreditation immediately (applied Jan 2006, all programs accredited retroactive to Oct. 2004) and in coordinating transfer of University of Mississippi Jackson Graduate Engineering Program from University of Mississippi to Jackson State University (highly successful and smoothly accomplished in 12 months as projected including dealing with Engineering Deans, Graduate Deans and Provosts from two universities, almost 200 miles apart, with zero history of partnership). Nearly 100 MS Engineering degrees awarded since 2006.

Director, Army Research Laboratory, Adelphi, Maryland (December 1998 – March 2003)
 Responsible for leadership, management and direction of the Army's corporate technology base research laboratory. Served as Chief Executive Officer, overseeing every aspect of operations with an annual budget exceeding one billion dollars, and a 2,100-member civilian and military team of scientists, engineers and technical/administrative professionals. During my tenure, the annual program increased from **\$560M to over \$1.3B**. Research missions included weapons and materials, sensors and electron devices, human research and engineering, survivability/lethality, information science/technology, vehicle technology and high performance computing. The Army's external basic research (Army Research Office) focuses on future technologies necessary for the Army

transformation. Partnerships included five Collaborative Technology Alliances, three University Affiliated Research Centers, and many other Academic Centers of Excellence. Principle customers were Army Materiel Command (AMC), Army Research Development and Engineering Center's (RDEC), Program Managers (PM), TRADOC Schools, Battle Labs and the Office of the Director, Defense Research and Engineering (DDR&E). Approximately 30% of budget was reimbursable (received from other Army/DOD organizations).

Director, Army Waterways Experiment Station, Vicksburg, MS (August 1992 – December 1998) Primary responsibilities included leadership, management, and direction of an 1,850-member civilian and military team of engineers, scientists and complementary technical and administrative support professionals executing an annual military engineering and civil works R&D program of about **\$350,000,000** annually in the areas of environmental, hydraulic, geotechnical, structural, and coastal engineering, and information technology. Operated the DoD High Performance Computing Major Shared Resource (Supercomputer) Center, Tri-Service CADD/GIS Technology Center, and the Corps of Engineers Central Processing Center (management information systems). Army military research missions included the Tri-Service lead in Airfields and Pavements, Survivability and Protective Structures, Sustainment Engineering, and Installation Restoration. Established the WES Graduate Institute with degree programs from Texas A&M University, Louisiana State University and additional graduate programs from Mississippi State University.

Technical Director, U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS (1985 – 1992).
Technical Director, U.S. Army Corps of Engineers Coastal Engineering Research Center, Ft. Belvoir, VA (1982 – 1983), and Waterways Experiment Station, Vicksburg, MS (May 1983 – June 1985).

Additionally served in positions as Chief, Wave Mechanics Section, Engineering Branch, Weapons Effects Division; Chief, Harbor Wave Action Branch, Wave Dynamics Division, Hydraulics Laboratory; and Chief, Wave Dynamics Division, Hydraulics Laboratory; U.S. Army Corps of Engineers, Waterways Experiment Station, Vicksburg, MS (June 1967 – May 1983).

Adjunct Professor, College of Engineering, Mississippi State University (1967 – 1987). Taught over 20 graduate courses in Civil Engineering and Mathematics. Served on Master Degree Committees

Adjunct Professor, University of Mississippi (1976). Taught graduate course in Physical Oceanography

Adjunct Professor, College of Engineering, Texas A&M University, College Station, TX (1972 -1974). Served on Ph.D. Committee in Civil Engineering Department, College of Engineering

Senior Scientist, Tetra Tech Inc., Pasadena, CA (1966 – 1967).

Scientist, National Engineering Science Co., Pasadena, CA (1964 - 1966).

Supervisory Scientist, Oceanics Div., Interstate Electronics Corp., Anaheim, CA (1962 – 1964).

Technical Staff, Ground Systems Group, Hughes Aircraft Co., Fullerton, CA (1961 – 1962).

Academic Advisory Committees

University of North Carolina, Coastal Hazards Center-Research, Member Advisory Board

University of Puerto Rico, Mayaguez, Department of Civil Engineering Advisory Board

Mississippi State University, Member, External Research Advisory Committee

University of Florida, Invited Guest at College of Engineering Advisory Board

University of Florida, Member, Coastal Engineering Department Advisory Board

University of New Orleans, Member, Department of Civil Engineering Advisory Board

University of Minnesota, Member, Advisory Board, Army High Performance Computing Research Center

Alabama A&M University, Member, Research Institute Advisory Board

Florida A&M University, Member, Engineering Advisory Council

Professional Committee Memberships

2014-Present Chair, Ocean and Marine Division, American Society for Engineering Education

2011-2014 Vice Chair and Program Chair, Ocean and Marine Division, American Society for Engineering Education

1986-Present Member, Rubble Mound Structures Technical Committee, Waterway, Port, Coastal and Ocean Division, American Society of Civil Engineers

2010-2012	Member, DOD National Committee to Evaluate HBCU/MI Participation in DOD Research and Education
1999-2002	Army Research Laboratory representative to Army Science Board Summer Study
1981 –1998	Corps of Engineers Liaison Representative to Marine Board, National Research Council, National Academy of Engineering
1986 – 1998	United States and Japan Joint Committee on Port and Harbor Research
1981 – 1994	United States Representative, Section of Maritime Hydraulics, International Association for Hydraulic Research
1985 – 1992	United States Representative, PTC II, Committee 12 Breakwaters, Permanent International Association of Navigation Congresses
1986 – 1996	Corps of Engineers Member, Department of the Army, Supercomputer Allocation Committee
1986	Chairman, Program Committee, Vicksburg Post, Society of American Military Engineers. Vicksburg Post received the Swimmers Award for holding technical program and meeting every month of 1986 – a direct responsibility of the Program Chairman.
1987 – 1990	Corps of Engineers Senior Executive Service Performance Review Board
1987	Member Source Selection Advisory Council (SSAC) for the Army High Performance Computing Research Center
1988	Co-Director, NATO-sponsored tutorial on Hydraulic Modeling, Lisbon, Portugal,
1989	Chairman, Source Selection Advisory Board, Corps of Engineers Supercomputer Acquisition, (\$28,000,000)
1990	Member Source Selection Advisory Board, Department of Defense Major Shared Resource Center
1978 – 1988	Chairman, American Nuclear Society Working Group ANS 2.4: Guidelines for Tsunami Runup at Power Reactor Sites
1978 – 1988	Member, American Nuclear Society Committee ANS 2.0

Consulting Activities

Lockheed Martin, Inc.
 PRC Harris Inc. (The Netherlands)
 Polytecha Harris, Inc (Italy)
 Fugro Inc.
 Ebasco Services, Inc
 Radiance Corp.
 R.O. Eaton Consulting Engineering
 Fredric R. Harris, Inc.
 Public Service Electric & Gas Co.

Chair, Conference Sessions

Chaired over twenty Technical Sessions at Conferences during last 5 years.
 Chaired innumerable sessions in last four decades
 Attended over fifty professional conferences in past ten years.
 Invited Keynote speaker about ten times in the last 25 years

Selected Technical Publications

Whalin, Robert, W., “A Quarter Century of Resounding Success for a University/Federal Laboratory Partnership”, ASEE 123rd Annual Conference and Exposition, New Orleans, LA, June 26, 2016

Whalin, Robert, W., “HBCU Engineering Faculty and Graduates: Implications for Race, Retention and Graduation Linkages”, NAAAS & Affiliates 2016 National Conference, Baton, Rouge, LA, February 2016

Whalin, Robert, W., “A New Coastal Engineering Graduate Program”, American Society for Engineering Education Annual Conference Proceedings, Seattle, Washington, June 2015.

Whalin, Robert, W. and Pang, Qing, “Department of Defense Minority Serving Institution Research and Development: A Proposed New Strategy, Assessment and Sunset Provision”, NAAAS & Affiliates National Conference, Baton, Rouge, LA, February 2015.

Whalin, Robert, W. and Pang, Qing, “Summer Engineering Enrichment Program Results Exceed Expectations”, American Society for Engineering Education Annual Conference Proceedings, Seattle, Washington, June 2015.

Whalin, Robert, W., Das, Himangshu S., Richardson, Thomas W. and Hendon, Donald L., “A Coastal/Ocean Engineering Graduate Project: Evaluation of a Hurricane Protection Concept”, American Society for Engineering Education Annual Conference Proceedings, Indianapolis, IN, June 2014.

Whalin, Robert W. and Pang, Qing, “Emerging Impact on Graduation Rates/Times From A Summer Engineering Enrichment Program”, American Society for Engineering Education Annual Conference Proceedings, Indianapolis, IN, June 2014.

Whalin, Robert, W. and Pang, Qing, “Assessment of Retention Rates After Five Years of a Summer Freshman Engineering Enrichment Program”, American Society for Engineering Education Southeast Section Conference Proceedings, Mercer University, March 2014.

Whalin, Robert W. and Pang, Qing, “HBCUs and HSIs: How are we doing in Graduating Engineers”, National Association of African American Studies 22nd Annual Conference, Baton Rouge, LA. Presented and Published in Proceedings, February 13, 2014.

Whalin, Robert W. and Pang, Qing, “Coastal, Ocean and Marine Engineering Graduate Education: A 2012 Health Assessment of USA Programs”, 2013 ASEE Annual Conference, Atlanta, GA. Presented and Published Proceedings, June 2013.

Whalin, Robert W. and Pang, Qing, “NonCitizen Students and Graduates in the JSU School of Engineering”, National Association of African American Studies 21st Annual Conference, Baton Rouge, LA. Presented and Published in Proceedings, February 13, 2013.

Pang, Qing and **Whalin, Robert W.**, “Gender of Students and Graduates From A USA HBCU School of Engineering”, 40th SEFI Conference, Thessaloniki, Greece. Presented and Published in Proceedings, Sept. 2012.

Hoonshin Jung, Himangshu Das, **Robert W. Whalin**, "A Robust and Efficient Typhoon Surge Prediction Technique for Emergency Management Applicable to Coastal China", Invited speaker, BIT's 1st Annual World Congress of Ocean 2012- Dalian, China, Presented and Published in Proceedings, September 2012.

Whalin, Robert W., “Gender and Diversity Trends of BS Engineering Graduates”, 2012 NAAAS Race, Gender and Sexuality Forum and Symposium, Orlando, FL. Presented and Published in Proceedings, June 2012.

Whalin, Robert W. and Pang, Qing, “Solving the Engineering Pipeline Challenge– Revised, Validated and Cost Optimized”, 2012 ASEE Annual Conference, San Antonio, TX. Presented and Published in Proceedings, June 2012.

Whalin, Robert W. and Pang, Qing, “Preliminary Assessment of Summer Enrichment Program”, ASEE Southeastern 2012 Conference, Starkville, MS, Presented April 2, 2012, Published in Proceedings.

Whalin, Robert W. and Pang, Qing, “Role of the HBCU-HSI-OMI Community in Solving the Engineering Pipeline Challenge”, 2012 NAAAS Conference, Baton Rouge, LA. Presented, February 2012; Presented and Published in Proceedings.

Himangshu S. Das, Hoonshin Jung, **Robert W. Whalin**, “A High Resolution Unstructured Model to Study Storm Surge in the Pacific Island of Guam”, Published in Proceedings, “Solutions to Coastal Disasters-2011”, Anchorage, Alaska, June 2011.

Whalin, R.W. and Pang, Qing, “Summer Enrichment Program to Enhance Retention”, 2011 ASEE Southeast Section Conference, Charleston, South Carolina. Presented and Published in Proceedings, March 2011

Whalin, R.W. and Pang, Qing, “Solving the Engineering Pipeline Challenge”, 2011 ASEE Annual Conference, Vancouver, British Columbia, Canada. Presented and Published in Proceedings, June 2011

Das, H.S, Jung, H., Ebersole, B., Wamsley, T., and **Whalin, R.W.**, “An Efficient Storm Surge Forecasting Tool for Coastal Mississippi”, 32nd International Conference on Coastal Engineering, 2010, Shanghai, China. Presented and Published in Proceedings.

Kim, Hyunju; Moore, Loretta A.; Fox, Geoffrey and Whalin, Robert W. “An Experience on a Distance Education Course over the Access Grid Nodes”, 4th International Conference on Education and Information Systems, Technologies and Applications, Orlando, Florida, July 2006.

Whalin, R.W., “Research and Development in the 21st Century,” Society of American Military Engineers Regional Conference, 14-16 November 1995, Vicksburg, MS.

Whalin, R.W., “Shock and Vibration Research at the U.S. Army Engineer Waterways Experiment Station,” Keynote Address to 66th Shock and Vibration Symposium, 31 October 1995, Biloxi, MS

Magoon, O.T., Weggel, J.R., Baird, W.F., Edge, B.L., Whalin, R.W., Davidson, D.D., Mansard, E., “Rehabilitation of the West Breakwater, Port of Sines, Portugal,” 24th International Conference on Coastal Engineering,” October 1994, Kobe Japan.

Whalin, Robert W., “An Overview of Rubble-Mound Breakwater Development in the United States”, Keynote Address, Case Histories of the Design, construction and Maintenance of Rubble Mound Structures, Seminar Honoring Robert Y. Hudson, Eureka, CA, pp 1-15 May 1994.

Weggel, J.R.; Baird, W. F.; Edge, Billy; Magoon, Orville J., Mansard, E.; Treadwell, D. D. and Whalin, Robert W., “Sines Breakwater Revisited: Repair and Reconstruction Case Histories of the Design, Construction and Maintenance of Rubble Mound Structures, Seminar Honoring Robert Y. Hudson, Eureka, CA., pp 271-284, May 1994.

Whalin, R.W., Pennington, C.H., “Coastal Engineering Education: A Cooperative Effort,” Civil Engineering in the OCEANS V; November 1992.

Ballard, R.F., McGee, R.J., Whalin, R.W., “A High-Resolution Sub-bottom Imaging System,” 18th Meeting of U.S. Japan Marine Facilities Panel, October 1992.

Whalin, R.W., “One View of Research and Development Requirement in Hydraulic and Environmental Engineering,” Ports 92 July 1992.

Whalin, R.W., “The Greening of Corps,” University of Miami, FL., September 1991.

Whalin, R.W., “Los Angeles-Long Beach Model Enhancement Program,” invited paper 16th Meeting of U.S. Japan Marine Facilities Panel, September 1989.

Whalin, R.W., “Management of R&D: The Public Sector Perspective,” invited speaker, Engineering Management Division, 95th ASEE Annual Conference, Reno, Nevada, June 1987.

Whalin, R.W., “A New Way of Doing Business for Corps R&D Labs- Responding to the Water Resources Development Act of 1986,” Annual Meeting of Corps of Engineers Planning Executive,” Gulf Shores, AL., February 1987.

Whalin, R. W., Welcome Address, 57th Shock and Vibration Symposium, New Orleans, LA. October 1986.

Whalin, R. W., "Water Resource Activities of the Waterways Experiment Station in the South-Central United States," invited paper, 29th Annual Meeting, River and Harbors Association of Mississippi, Natchez, MS, October 1986.

Whalin, R. W., "Sedimentation Research in the Corps of Engineers," invited paper, Third International Symposium on River Sedimentation, Jackson, MS. April 1986.

Whalin, R. W., "Water Quality R&D: Successful Bridging Between Theory and Application-Panel Discussion," U.S Army Corps of Engineers Seminar on Water Quality, New Orleans, LA. Feb, 1986.

Whalin, R. W., "Navigation Related R&D at WES," Annual Meeting of Gulf Coast Inter-coastal Waterway Association, New Iberia, LA. Nov. 1985.

Whalin, R. W., "Corps of Engineers R&D in Coastal Engineering," Ocean Principles Meeting, Washington, DC, Sept 1985.

Whalin, R. W., "Design of Sand Bypass/Backpass Operations: Four Decades of Progress," Hilton Head Island Symposium, 6-9 June 1983, Hilton Head, SC.

"Review of Modeling Technology: Paths for the Future," Conference on Physical Modeling in Coastal Engineering, August 1981, University of Delaware, Newark, Delaware.

"Improvement and Maintenance of Navigation Channels and the Control of the Regimen in Estuaries in Relation to Energy Due to Tidal Movement, Waves and Swell at Entrance," Proceedings of the 24th International Navigation Congress, Leningrad, USSR, September 1977 (with O.T. Magoon and M Millard).

"Los Angeles Harbor and Long Beach Harbor: Summary of Results and Future Plans," Proceedings of 4th Annual Symposium of the Waterway, Port, Coastal and Ocean Division of ASCE. PORTS 77, Vol. pp. 169-177.

"Los Angeles Harbor and Long Beach Harbor: Plan of Study," Proceedings of 4th Annual Symposium of the Waterway, Port, Coastal and Ocean Division, ASCE, PORTS 77. Vol. 1. Pp. 1-9.

"Automated Control Data Acquisition and Analyses for Hydraulic Models of Tidal Inlets," Proceedings of the 1976 Army Numerical Analysis and Computers Conference, ARO Report 76-3. pp. 223-248 (with D.L. Durham and H.C. Greer, III).

Whalin, R. W., Perry, F. C. and Durham, D. L., "Model Verification for Tidal Constituents", Volume IV, Proceedings at the 15th Coastal Engineering, Honolulu, Hawaii, USA, July 1976.

"Evaluation of Coastal Zone Management Plans through Model Techniques," presented and published in the Proceeding, Marine Technology Conference, Tools for Coastal Zone Management.

Whalin, R. W. and Chatham, C. E., "Design of Distorted Harbor Wave Models", Volume IV Proceedings of the 14th Coastal Engineering Conference, pp 2012-2121, Copenhagen, Denmark, June 1974.

Whalin, Robert W., "Wave Refraction Theory in a Convergence Zone", Proceedings of the 13th Coastal Engineering Conference, Volume I, pp 451-470, Vancouver, British Columbia, Canada, July 1972.

"Runup, Setup and Stability of Intermediate Period Water Waves at Monterey California," (with D.R. Bucci and J.N. Strange), presented to and published in Proceedings of Conference on Dynamic Waves, The Institution of Civil Engineers, University of Wales, Swansea, Wales, Great Britain, July 1970.

"The Linear Theory of Water Waves Produced by Explosions," presented to the Annual Meeting of the American Geophysical Union, Washington, D.C., March 1966.

"Hall Effect Measurements of Alkali Titanates," presented to the Annual Meeting of the Electronics Division of the Society of Ceramic Engineers, Milwaukee, WI, March 1961.

“AC Resistivity of the Group V Alkalai Titanates,” presented to the Annual Meeting of the Electronics Division of the Society of Ceramic Engineers, Milwaukee WI, March 1961.

Technical Reports

Vincent, M.K., Whalin, R.W., and Grum, A F., “Importing Education: An Army Lab’s Pursuit of Excellence,” Government Executive Magazine, October 1987.

Whalin, R.W., (Editor), “Proceeding of the 42nd Meeting of the Coastal Engineering Research Board, 10-12 December 1984, Chicago, IL,” February 1985.

Whalin, R.W. “Review of Delft Hydraulic Lab Reports on Sines Breakwater Project,” prepared for PRC Harris, Inc., The Hague, The Netherlands, February 1985.

“Natural Hazards and Research Needs in Coastal Engineering,” Ad Hoc Committee for the Civil and Environmental Engineering Division, National Science Foundation, November 1984.

Whalin, R.W., (Editor), “Proceeding of the 41st Meeting of the Coastal Engineering Research Board, 5-7 June 1984, Seattle, WA,” August 1984.

Whalin, R.W. “Observation and Recommendation from 2nd Board of Advisors Meeting: Sines Breakwater Project,” prepared for PRC Harris, Inc., The Hague, The Netherlands, March 1984.

Whalin, R.W., (Editor), “Proceeding of the 40th Meeting of the Coastal Engineering Research Board, 18-20 October 1983, North Falmouth, MA,” January 1984.

Whalin, R.W., “Lido DiDante Project Related Studies,” prepared for Polytechna Harris, Inc., Milano, Italy, December 1982.

Scanlon, John M., Jr., McDonald, James E., McAnear, Clifford L., Hart E. Dale, Whalin, R.W., Williamson, Gilbert R, and Mahloch, Jerome L, REMR Research Program Development Report,” February 1982.

Whalin, R.W., “Observations and Recommendations: Sines Breakwater Projec,” First Board of Advisors meeting prepared for PRC Harris, Inc., The Hague, The Netherlands, November 1981.

Whalin, R.W., Outlaw, D.G., and Raney, D.C., “Los Angeles and Long Beach Harbors Model Study, Report 6, numerical Analysis of Cerritos Channel Oscillation,” WES Technical Report H-75-4, September 1981.

Kramer, E.J., Whalin, R.W., Bradley, J.H., Pickering, G.A. and Iskander, I., “Suez Canal Improvement Study,” U.S. Army Engineer Division, Middle East, April 1981.

Raney, D.C. Durham, D.L., and Whalin, R.W., “Lake Erie International Jetport Model Feasibility Investigation, Report 17-10, Non-technical Summary of Project,” WES Technical Report H-74-6, January 1978.

Whalin, R.W., Sager, R.A., Chatham, C.E., Davidson, D.D., Vincent C.L., and Fisackerly, G.M., “Coastal Engineering at WES, Shore and Beach Magazine,” October 1977.

Whalin, R.W., “A Variation Approach to Nonlinear Wave Theory,” WES Miscellaneous Paper H-76-16, August 1976.

Outlaw, D.G., Durham, D.L., Chatham, CE. and Whalin R.W., Los Angeles and Long Beach Harbors Model Study, Report 4, Model Design,” WES Technical Report H-75-4, February 1976

Carver, R.D., Davidson, D.D, Whalin, R.W., and Barwis, John H., “Shore Effect Model, Atlantic Generating Station,” WES Technical Report H-75-6, November 1975.

Houston, J.R., Whalin, R.W., Garcia, A.W. and Butler, H Lee, “Effect of Source Orientation and Location in the Aleutian Trench on Tsunami Amplitude along the Pacific Coast of the Continental United States,” WES Technical Research H-75-4, July 1975.

Houston, J.R., Butler, H.L., Whalin, R.W., and Raney, D.C., "Probable Maximum Tsunami Runup for Distant Seismic Events", Amendment 23, Appendix 2.4B, NORCO-NP-1, PSAR, Fugro, inc., Long Beach, CA. May 1975.

Outlaw, F.G., Durham, F.L., Davidson, D.D., and Whalin, R.W., "Lake Erie International Jetport Model Feasibility Investigation Report 17-2, Physical Model Feasibility Study," WES Technical Report H-74-6, April 1975.

Whalin, R.W., "Hydraulic Model Evaluation of Coastal Evolution Due to Offshore Structures," Shore and Beach Magazine. April 1975, pp. 9-20.

Whalin, R.W., "Design of Floating Scrap Tire Breakwater for Expediting Intake Structure Construction; Hutchinson Island Nuclear Power Plant, Florida Power & Light Company," prepared for EBASCO Service, Inc., November 1974,

Whalin, R.W. and Butler, J.L., "Criteria for Use of Ripple Tanks: Refraction Scale Effects," WES Research Report H-74-1-September 1974.

Whalin, R. W., Raney, D.C., and Butler, H.L., "Numerical Investigation of the Atlantic Generating Station's Effect on Currents for Little EGG Inlet, New Jersey," Preliminary Report Prepared for Public Service Electric & Gas Company, July 1974.

Davidson, D.D. and Whalin, E.W., "Potential Landside-Generated Water Waves, Libby Dam and Lake Koocanusa, Montana, Hydraulic Model Investigation," WES Technical report H-74-15, December 1974
Chatham, C.E., Davidson, D.D., and Whalin, R.W., "Study of Beach Widening by the Perched Beach Concept, Santa Monica Bay, CA," WES Technical Report H-73-8, June 1973.

Clark, A.A., Whalin, R.W., et al., "Port Construction in the Theater of Operations," WES Technical Report H-73-9, June 1973.

Whalin, R.W., and Hudson, R.Y., "An investigation of The Feasibility of Conducting a Distorted Scale Model Investigation of the Effect of an Offshore Nuclear Power Plant on Shoreline Evolution," prepared for Frederic R. Harris, Inc. Consulting Engineering, January 1973.

Whalin, R.W. "The Limit of Applicability of Linear Wave Refraction Theory in a Convergence Zone," WES Research Report H-7-3, December 1971.

Whalin, R.W., and Bucci, D.R., High Wave Problem- Southeast Asia (U), WES Technical Report N-71-7, SECRET, May 1971.

Whalin, R.W. , Bucci, D.R., and Strange, J.N. , "Experimental Evaluation of the Surf Zone Problem," WES Technical Report N-71-1 SECRET, January 1971.

Whalin, R.W., Pace, C.E. , Lane, W.F. , Mono Lake Explosion Test Series, 1965, Analysis of Surface Wave and Wave Run up Data," WES Report No. N-70-12, August 1970.

Whalin, R.W., Pace, C.E., and Strange. J.N. "Ibid, Report 5, Summary of Results, Comparison with Theory, and Development of a Prediction Method (U)," WES Technical Report No.1-647, March 1970. CONFIDENTIAL.

Whalin, R. W., and Bucci, D.R., "Run up Characteristics of Explosion Generated Waves in Major Harbor areas, Report 2," Methodology for Conducting Runup Tests in a Distorted Model and Wave Intrusion into San Diego Bay, CA," WES Technical Report No. N-69-4. September 1969

Whalin, R.W., "Reply to AEC Questions Regarding Explosion Wave Propagation up the Discharge Channel and Run-up at the Brunswick Nuclear Power Plant," prepared for R.O. Eaton, Consulting Engineering, January 1969.

Whalin, R.W., Pace. C.E., Sekurai, A, and Strange, J.N., "Ibid, Report 4, Effect of Charge Depth of Submergence on Wave Height and Energy Coupling," WES Technical Report No-1-647, January 1969.

Whalin, R.W., and Bucci, D.R., "Run up Characteristics of Explosion Generated Waves in Major Harbor Areas, Report 1," Wave Intrusion into Monterey Harbor, CA. WES Technical Report No. 1-647, January 1969.

Whalin, R.W., "Explosion Wave Propagation and Runup at the Brunswick Nuclear Power Plant," prepared for R.O. Eaton, Consulting Engineer, August 1968.

Whalin, R.W., Pace, C.E., and Strange J.N. "Surface Waves Resulting from Explosions in Deep Water, Report 3, Propagation Characteristics," WES Technical Report No. 1-647. April 1968. Wave Spectrum (U), Vol. 1. Final Report, NMC-ONR, July 1965. SECRET.

Whalin, R.W., "Analysis of Data on Water Waves, Vol. I Theoretical Developments on Explosion Generated Waves," Report No. TC 105-1, June 1967, Tetra Tech Inc., Pasadena, CA.

Whalin, R.W., "Ibid, Vol. II, Mono Lake Experiment," Report No. TC 105-2, June 1967 Tetra Tech Inc., Pasadena, CA.

Whalin, R.W., "Ibid, Vol. III, Shallow Water Wave Study," Report No. TC 105-3, June 1967, Tetra Tech Inc., Pasadena, CA.

Whalin, R.W., "Initial Conditions Resulting in J3 (MR) Determining the Envelope Phases of Explosion Generated Wave Train," Tetra Tech Memorandum 24 February 1967, Tetra Tech Inc., Pasadena CA.

Whalin, R.W., and Divoky D., "Water Waves Generated by Shallow Water Explosions," Final Report, NESCO Report S-359, September 1966.

Whalin, R.W., LeMehaute, B., and Divoky, D., "Ibid, Vol. 111: Costal Inundation at Loss Angeles, CA. Due to Offshore Nuclear Burst (U)," NESCO Reports S-244-4, June 1966.

Whalin, R.W., LeMehaute, B., and Divoky, D., "Ibid, Vol. 1V: Five City Study (U)," Final Report, NESCO Report S-359, June 1966. CONFIDENTIAL

Whalin, R.W., R. W., LeMehaute, B., Koh, R., Hwang, L.S., Webb, L.S., and Divoky D., "Hydrodynamic Effects of Nuclear Explosions, Vol. 1: State of Art," NESCO Report S-244-1, May 1966.

Whalin, R.W. and LeMehaute, B., "Contributions to the Mono Lake Experiment, Vol. 1 Prediction of the Water Waves and Run up from 10,000 lb. TNT Explosion," NESCO Reports S-256-2, October 1965.

Whalin, R.W., "Ibid, Vol. 11, Final Report," The Linear Theory of Water Waves Generated by Explosions," NESCO Report S-256-2, October 1965.

Whalin, R.W., and Smith, D.L., "Ibid Part 1V: A Generalized Method for Predicting the Surface Water Wave Spectrum (U)," Vol. 1, Final Report, NMC-ONR, July 1965,

Whalin, R.W., "Ibid, Part11: A Prediction Method (U)," January 1965, SECRET

Whalin, R.W., "Wind Wave Environment in Chesapeake Bay and Resultant Barge Motions," NESCO Report No. S-174, January 1965, National Engineering Science Co., Pasadena, CA.

January 1964, Interstate Electronics Corp., Anaheim, CA. SECRET,

Whalin, R.W., "Research on the Generation and Propagation of Water Waves Produced by Underwater Explosion: Part 1: Propagation in the Area Near the Source (U)," December 1964, CONFIDENTIAL.

Whalin, R.W. and Smith D.L., "Explosion Wave Prediction for Project Spindrift," NMC Report, 64, January 1964, Interstate Electronics Corp., Anaheim, CA. SECRET,

Whalin, R.W. and Kent, R.E. and Smith, D.L., "Ibid, Part VI: Data Analysis (U)," NMC-ONR62, Whalin, R.W. and Trampus, A., "The Theoretical Velocity Filed on the Underwater Portion of an impervious Sloping Breakwater," NMC Report, May 1963. December 1963. SECRET

Whalin, R.W., "Ibid, Part V: Propagation," NMC-ONR 62, September 1963.

Whalin, R.W., "Ibid, Part IV: Numerical Procedure, Deepwater Explosions," (U), NMC-ONR 62, January 1963, SECRET.

Whalin, R.W. and Kent, R.E., "Water Waves Produced by Impulsive Energy Sources, Part III Data Analysis and Scaling Relations (U)," NMC-ONR 62, October 1962, SECRET.

Whalin, R.W., "Initial Data for the Dynamics of Truck Transport," MTN-28, Hughes Aircraft Co., March 1962.

Whalin, R.W., "Positioning Error in Radar Defense System due to a Jammer," MTN-26, Hughes Aircraft CO., March 1962.

Whalin, R.W., and Weinitski, H., "Thermal Deflection of a Paraboloidal Shell," MTN-18, Hughes Aircraft Co"., September 1961.