

**SCHOOL of CIVIL and CONSTRUCTION ENGINEERING**  
**OREGON STATE UNIVERSITY**  
College of Engineering

**HUDSPETH, Robert Turner**  
Professor, Emeritus

**BIRTH DATE**  
November 26, 1940

**DEGREES**

**B.S. (with distinction), Engineering, U.S. Naval Academy, 1963**  
**MSCE Civil Engineering, University of Washington, 1966**  
**Ph.D. Civil Engineering, (Mathematics), University of Florida, 1974**

**ACADEMIC POSITIONS**

**Research Assistant, University of Florida, 1971-1974**  
**Assistant Professor, Oregon State University, 1974-1979**  
**Associate Professor, Oregon State University, 1979-1983**  
**Professor, Oregon State University, 1983-present**  
**External Examiner, Ph.D. thesis:**  
    **University of Melbourne; Melbourne, Australia, 1984**  
    **University of British Columbia; Vancouver, Canada, 1985**  
    **University of Stellenbosch, Stellenbosch, South Africa, 1987, 1994**  
    **University of Cape Town, Cape Town, South Africa, 1993**  
**Director, Office of Naval Research-University Research Initiative, 1986-1991**  
**Profesor, Curso de Ingenieria de Costas, Universidad Politecnica de Valencia, Valencia, Spain, 1987**  
**Director, Ocean Engineering Program, Oregon State University, 1991-2002**

**NON-ACADEMIC POSITIONS**

**Officer, U.S. Navy, Civil Engineer Corps, 1963-1971**  
**CAPT, Civil Engineer Corps, U.S. Navy Reserve (Retired)**  
**Consultant to:**  
    **Intersea Research Corporation, 1975, 1976, 1979**  
    **Energy Research and Development Administration (ERDA), 1976**  
    **Delft Hydraulics Laboratory, Delft, The Netherlands, 1976-1977**  
    **Eager and Associates, 1977**  
    **CH2M Hill, 1977, 1978, 1979**  
    **Continental Oil Company (CONOCO), 1977-1978**  
    **American Bureau of Shipping (ABS), 1977-1978**  
    **Department of Energy (DOE), 1979, 1984, 1985, 1986**  
    **Marathon Oil Company, 1979, 1980, 1981**  
    **Western Canada Hydraulics Laboratory (WCHL), 1979**  
    **Environmental Protection Agency (EPA), 1979**  
    **Parsons, Brinckerhoff, Quade and Douglas (PBQ & D), 1979**  
    **Dames and Moore, Inc., 1979-1980**

**Willamette Geotechnical Corporation, 1979**  
**Hydro Research Science (HRS), 1980, 1981**  
**Western Instrument Corp., 1980, 1982, 1983, 1985, 1986**  
**EXXON Production Research Corp., 1980, 1981, 1982**  
**Naval Civil Engineering Laboratory (NCEL), 1979-1992**  
**Brown and Root, 1981**  
**Ingenieurgesellschaft Meerestechnik & Seebau GmbH, Germany (IMS), 1981**  
**C.G. Doris, France, 1981**  
**Union Oil Company, 1981**  
**U.S. Army, Corps of Engineers, Coastal Engrg Research Center (CERC), 1981, 1985, 1986, 1987**  
**Naval Research Laboratory (NRL), 1981**  
**U.S. Geological Survey (USGS), 1982**  
**National Bureau of Standards (NBS), 1982, 1983**  
**American Gas Association (AGA), 1982, 1983, 1984**  
**U.S. Department of Interior, Minerals Management Service (MMS), 1982, 1983**  
**Ogden, Beeman and Associates, 1983, 1987, 1988**  
**TETRA TECH, Inc., 1983, 1984**  
**Gresham Sewage Treatment Plant, Gresham, Oregon 1984**  
**ENVIROTECH Operating Services, 1984**  
**United Nations, 1984**  
**Central Water and Power Research Station, Pune, India, 1984**  
**Rockwell-Hanford, 1984-1987**  
**PMB Systems Engineering, Inc., 1986, 1987, 1988, 1992**  
**Watermeyer, Halcrow & Partners, Consulting Engineers, Cape Town, SA, 1986-1987**  
**AMOCO Production, 1988**  
**ARTEC Offshore Corp., 1988**  
**Evans-Hamilton, Inc., 1988**  
**TAISEI Corp., Tokyo, Japan, 1989, 1991**  
**Houghton Mifflin Publishing Co., 1989**  
**ITB, Bandung, Indonesia, 2nd Indonesia University Project, World Bank XVII, 1989**  
**Polish Academy of Sciences, Gdansk, Poland, 1990**  
**Centro de Estudios de Puertos y Costas (CEPYC), Madrid, Spain, 1990-1991, 1994, 1996**  
**Shinozuka Research Institute (SRI), Tokyo, Japan, 1991-1992**  
**ADK, Athens, Greece, 1996**  
**Holland & Knight, LLP, 2007**  
**ENSR, 2008-2009**

## **FIELDS OF SPECIALIZATION**

**Stochastic Nonlinear Wave Hydromechanics**

**Wave Forces on Fixed and Floating Structures**  
**Finite Element Modeling of Nearshore Circulation Dynamics**  
**Porosity-Elastic Wave-Soil Interaction**  
**Dispersive Mass Transport in Estuaries**  
**Stability of Marine Pipelines**  
**Parameter Identification in Porous Media**  
**Chaotic Behavior of Nonlinear Dynamics Systems**  
**Penetration of Cylindrical Projectiles into Sandy Media**

## **PROFESSIONAL ACTIVITIES**

### **Registration**

**State of Oregon (No. 08371 PE)**

### **Professional Societies**

**American Society of Civil Engineers (ASCE)**

**American Geophysical Union (AGU)**

**Sigma Xi**

**Phi Kappa Phi**

### **Committees, Commissions and Boards**

**Fluid Mechanics User Committee, Oregon State University, 1975-1984**

**Academic Computer User Council, Oregon State University, 1976-80**

**Math User Committee, Oregon State University, 1983-present**

**Member, Cooperative Institute for Marine Resources Studies (CIMRS)**

**Chairman, Ocean Engineering Graduate Program, Oregon State University, 1981-present**

**Dept. Civil Engineering-Faculty Status Committee; 1983-present; Chairman 1984-85**

**OSU Student Activities Committee (SAC); 1985-1989; Co-Chairman 1986-88**

**Ad hoc, Engineering Education and Accreditation Committee, ECPD, 1976;1979**

**Publications Committee for *Journal of Waterways, Port, Coastal and Ocean Division*, ASCE, 1977-present; Vice Chairman 1981-82; Chairman 1982-1983**

**Editor, *Journal of Waterways, Port, Coastal and Ocean Division*, ASCE, 1982-83**

**Publications Committee for *Journal Hydraulics Division*, ASCE, 1979**

**Tidal Hydraulics Committee: Hydraulics Division, ASCE, 1976-80**

**Task Committee on Sea-Based Structures of the Committee on Special Structures: Committee on Metals; Structural Division, ASCE, 1978-80**

**Task Committee on Opportunities and Education in Tidal Hydraulics: Tidal Hydraulics Committee; Hydraulics Division, ASCE, Chairman 1981-1983**

**Task Committee on Microcomputer Applications in Coastal and Ocean Engineering; Waterway, Port, Coastal and Ocean Division, ASCE, 1987**

**Awards Committee: Waterways, Port, Coastal and Ocean Div, ASCE,**

**1982-1983; Chairman, 1985-1986**  
**Waves and Wave Forces Tech Comm; Waterways, Port, Coastal and Ocean Div, ASCE, 1981-1986**  
**Coastal Engineering Tech Comm; Waterways, Port, Coastal and Ocean Div, ASCE, 1981-1986**  
**Publications Chairman, Ocean Structural Dynamics Symposium, OSDS, 1982**  
**Harbor & Coastal Engineering Award Panel, ASCE, 1984-1986; Chairman, 1985-1986**  
**Review Panel, Basic Research Program, Naval Civil Engineering Laboratory (NCEL), 1989-1990**  
**Marine Board, National Research Council, National Academy of Engineering, 1990-1993**  
**Marine Board, Executive Committee, National Research Council, 1992-1993**  
**Research Advisory Committee, OSU College of Engineering, 1990-1995**  
**Chairman, Technical Program, Civil Engineering in the Oceans V (CEO5) ASCE, 1990-1992**  
**Faculty Advisory Committee, OSU Library Expansion Project, 1990-1996**  
**Ocean Engineering Tech Comm; Waterways, Port, Coastal and Ocean Div, ASCE, 1991-1997**  
**Ocean Engineering/Waves and Wave Forces Technical Committee, ASCE, 1998-2002**

#### **Awards**

**Certificate of Appreciation, ASCE, for service as Editor, *Journal of Waterways, Port, Coastal, and Ocean Div.*, 1983**  
**College of Engineering Research Award, Oregon State University, 1985**  
**College of Engineering Alumni Professor, Oregon State University, 1992**

#### **BOOKS and BOOK CHAPTERS**

##### **BOOKS**

***Waves and Wave Forces on Coastal and Ocean Structures*, R.T. Hudspeth, World Scientific Pub., 2006.**  
***The Effect of Random Seas on Pipeline Stability: Finite Element Responding of Pipeline Response Vol 2*, L. E. Borgman and R. T. Hudspeth, American Gas Assoc., 1984.**  
***Civil Engineering in the Oceans V: Proceedings of the International Conference*, R. T. Hudspeth, (Editor), American Society of Civil Engineers, 1992.**

##### **BOOK CHAPTERS**

**A Digital to Analog Wavemaker Simulations, R.T. Hudspeth, J.H. Nath and C.K. Sollitt, *Physical Modelling in Coastal Engineering*, R.A. Dalrymple (Editor), A.A. Balkema Pub., Inc., Boston, 1985, pp. 81-103.**  
**A Nondeterministic Wave Force on Fixed Small Vertical Piles, H. Tuah and**

**R.T. Hudspeth, *Probabilistic Offshore Mechanics, Progress in Engineering Science*; Vol. 7, Ed. P.D. Spanos, CML Publications, Southampton, England, 1985, pp. 49-54.**

**A Nonlinear Laboratory Waves, R. T. Hudspeth, Ch. 1 in *Fluid Structure Interaction in Offshore Engineering, Advances in Fluid Mechanics*, Vol. I, Ed. S. Chakrabarti, Boston, 1994, pp. 1-41.**

**Wavemaker Theories, R.T. Hudspeth and R.B. Guenther, *Handbook of Coastal and Ocean Engineering*, Ch. 2, Ed. Y.C. Kim, World Scientific Pub., 2010, pp. 25-56.**

**Analyses by the Melnikov Method of Damped Parametrically Excited Cross Waves, R.B. Guenther and R.T. Hudspeth, *Handbook of Coastal and Ocean Engineering*, Ch. 3, Ed. Y.C. Kim, World Scientific Pub., 2010, pp. 57-86.**

## **PUBLICATIONS**

### **Technical Journals**

**Discussion of Effect of Structures on Irregular Waves Compared to Regular Waves, (with Min-Chu Chen), by Y. Oullet and Y. Morin, Paper 11494, *ASCE, Journal of the Waterways, Harbors and Coastal Engineering Div.*, 102(WW3), Aug 1976, pp. 353-358.**  
**Effects of Nonlinearities on Wave Power Estimates, *ASCE, J Power Div.*, 103(PO1), July 1977, pp. 51-64.**

**Linear and Nonlinear Wave Action Estimates, (with L.S. Slotta), *ASCE, Journal of Engineering Mechanics Div.*, Vol. 104, EM2, April 1978, pp. 319-334.**

**Digital Simulation of Nonlinear Random Waves, (with Min-Chu Chen), *ASCE, J of Waterways, Port, Coastal and Ocean Engr Div.*, 105(WW1), Feb 1979, pp. 67-85.**

**Efficient FFT Simulation of Digital Time Sequences, (with L.E. Borgman), *ASCE, Journal of Engineering Mechanics Div.*, 105(EM2), April 1979, pp. 223-235.**

**Dynamic Covariance Equations for Hinged Wavemakers, (with J.W. Leonard), *Engineering Structures*, Vol. 2, October 1980, pp. 217-224.**

**Evaluation of Sand Waves in an Estuary, (with B.R. Baliga), *ASCE, Journal Hydraulics Div.*, 107(HY2), February 1981, pp. 161-178.**

**Design Curves for Hinged Wavemakers: Theory, (with Min-Chu Chen), *ASCE, Journal Hydraulics Div.*, 107(HY5), May 1981, pp. 533-552.**

**Design Curves for Hinged Wavemakers: Experiments, (with J.W. Leonard and Min-Chu Chen), *ASCE, J Hydraulics Div.*, 107(HY5), May 1981, pp. 553-574.**

**Wave Power Extraction from a Transient Heaving Cylinder, (with L.S. Slotta), *Journal of Ship Research*, Vol. 25, No. 2, June 1981, pp. 141-145.**

**Deterministic Fluid Forces on Structures: A Review, (with J.W. Leonard and C.J. Garrison), *ASCE, J of the Structural Div.*, 107(ST6), June 1981, p. 1041-1057.**

**Teaching Holistic Thought Through Engineering Design, (with K.J. Williamson), *ASCE, Journal of Engineering Education*, Vol. 72, No. 7, April 1982, pp. 698-703.**

**Pipeline Stability Under Finite Amplitude Waves, (with Min-Chih Huang), *ASCE, J of***

- Waterways, Port, Coastal and Ocean Engrg Div.*, 108(WW2), May 1982, pp. 125-145.
- Nonlinear Diffraction by Eigenfunction Expansions, (with Min-Chu Chen), *ASCE, J of the Waterways, Port, Coastal and Ocean Engrg Div.*, 108(WW3), Aug. 1982, pp. 306-325.
- Comparisons of Numerical Random Sea Simulations, (with H. Tuah), *ASCE, J of Waterways, Port, Coastal and Ocean Engrg Div.*, 108(WW4), Nov. 1982, pp. 569-584.
- Stream Function Solutions for Steady Water Waves, (with Min-Chih Huang), *Proceedings National Science Council, ROC(A)*, Vol. 7, No. 4, 1983, pp. 294-300.
- Diffraction By Axisymmetric Green's Function, (with Min-Chu Chen), *TN, ASCE, J of the Waterways, Port, Coastal and Ocean Engrg Div.*, V109(1), Feb. 1983, pp. 117-121.
- Nondeterministic Wave Force on Fixed Small Vertical Piles, (with H. Tuah), *Applied Ocean Research*, 5(2), April 1983, pp. 63-68. Reprinted in *Probabilistic Offshore Mechanics, Progress in Engineering Science*; 7, Ed. P.D. Spanos, CML Publications, Southampton, England, 1985, pp. 49-54.
- Stochastic Response of a Prototype Ocean Platform, (with M. Grecco), *ASCE, Journal of Structural Engineering*, 109(5), May 1983, pp. 1119-1138.
- Wave Setup/Setdown and Longshore Current on Non-Planar Beaches, (with W.G. McDougal), *Coastal Engineering*, 7(2), May 1983, pp. 103-117.
- Longshore Sediment Transport on Non-Planar Beaches, (with W.G. McDougal), *Coastal Engineering*, 7(2), May 1983, pp. 119-131.
- Hydrodynamic Interference Between Floating Cylinders in Oblique Seas, (with Min-Chih Huang and J.W. Leonard), *Applied Ocean Res*, 5(3), July 1983, pp. 158-166.
- Editorial, *Journal of Waterways, Port, Coastal, and Ocean Div.*, ASCE, 109(4), Nov. 1983, pp. 359-362.
- Stream Function Solutions for Steady Waves, (with Min-Chih Huang), *Journal of Continental Shelf Research*, 3(2), 1984, pp. 175-190.
- Wave Interference Effects by Finite Element Method, (with Min-Chih Huang and J.W. Leonard), *J of the Waterway, Port, Coastal and Ocean Engrg.*, V111(1), 1985, pp. 1-17.
- Finite Water Depth Effects on Nonlinear Waves, (with H. Tuah), *ASCE, J of the Waterways, Port, Coastal and Ocean Engrg Div.*, Vol. III(2), Mar. 1985, pp. 401-416.
- FEM Solution of 3-D Wave Interference Problems, (with Min-Chih Huang and J.W. Leonard), *J of Waterways, Port, Coastal, and Ocean Engrg*, VIII(4) 1985, pp. 661-677.
- Remarks on Parameter Identification, I, (with R.B. Guenther, W.G. McDougal, and J. Gerlach), *Numerische Mathematik*, 47, 1985, pp. 355-361.
- Dynamic Response of Tension Leg Platforms with Axisymmetric Members, (with J.W. Leonard), *Engineering Structures*, 8(1), Jan. 1986, pp. 55-63.
- Dynamic Behavior of Deep-Ocean Pipeline, (with M. Zimmerman, J.W. Leonard, J.W. Tedesco, and L.E. Borgman), *ASCE, J of Waterway, Port, Coastal, and Ocean Engrg Div.*, 112(2), March 1986, pp. 183-199.
- Influence of Lateral Mixing on Longshore Currents, (with W.G. McDougal), *Journal of Ocean Engineering*, 13(5), 1986, pp. 419-433.
- Flow Equations in Terms of Piezometer Levels for Nonisothermal Fluid in Low-Permeability Porous Medium, (with A.H. Lu, B. Sagar, and R.B. Guenther), *Water Resources Research*, 23(6), June 1987, pp. 1097-1102.

- Earthquake Response of Circular Cylindrical Structures in Water, (with Y. Tanaka), *Earthquake Engineering and Structural Dynamics*, 16, January 1988, pp. 99-119.**
- Wave Phase/Amplitude Effects on Force Coefficients, (with J.H. Nath and P. Khare), *ASCE, J of Waterway, Port, Coastal and Ocean Engrg* , 114(1), Jan 1988, pp. 34-49.**
- Longshore Current and Sediment Transport on Composite Beach Profiles, (with W.G. McDougal), *Journal of Coastal Engineering*, 12, 1989, pp. 315-338.**
- Grupos de Olas y Diseña de Diques en Talud, (with J.R. Medina), *Revista de Obras Publicas*, Oct. 1989, pp. 709-721 (in Spanish).-**
- Significance of Keulegan-Carpenter Parameter, Invited paper presented at G.H. Keulegan Symposium, *Proceedings*, International Conference on Physical Modeling of Transport and Dispersion, IAHR, MIT, August 7-10, 1990, pp. 7.1-7.5.**
- The Dean Eccentricity Parameter and Data Condition, (with J.H. Nath), *ASME, Journal of Offshore Mechanics and Arctic Engineering*, 112, Nov 1990, pp. 327-333.**
- A Review of the Analyses of Ocean Wave Groups, (with J.R. Medina), *Journal of Coastal Engineering*, 14(6), December 1990, pp. 515-542.**
- Wave Forces Acting on Small Offshore Structures, (with M. Kubota and J.W. Leonard), *Coastal Engrg in Japan*, Japanese Soc Civil Engrs, 33(2), 1990, pp. 195-217.**
- Nonlinear Fluid Forces on Hinged Wavemakers, (with T-I Kim), *Journal of Korean Society of Coastal and Ocean Engineers*, 2(4), Dec 1990, pp. 208-222.**
- Effects of Data Condition on  $C_m$  and  $C_d$ , (with J.W. Leonard, M. Kubota, and H. Kotoguchi), *Proc, Japanese Soc Civil Engrg*, No. 429/II-15, May 1991, pp. 107-114.**
- Stokes Drift in 2-D Wave Flumes, (with W. Sulisz), *Journal of Fluid Mechanics*, 230, September 1991, pp. 209-229.**
- Parameter Identification in Radial Flow, (with R.B. Guenther, K.L. Roley, and W.G. McDougal), Invited paper for Special Issue: On Parameter Identification in Groundwater Flow, Transport and Related Processes; II - Advanced Applications, *Adv Water Res*, V14(5), Oct 1991, pp. 240-251.**
- The Significance of the Keulegan-Carpenter Parameter, Special Edition dedicated to G.H. Keulegan, *ASCE, Journal of Hydraulics Div.*, 117(12), Dec 1991, pp. 1626-1638.**
- Analysis of Nonlinear Response of an Articulated Tower, (with O. Gottlieb and S.C-S Yim), *Journal of Offshore and Polar Engineering*, 2(1), March 1992, pp. 61-66.**
- Scaling Thermal Effects in Radial Flow, (with R.B. Guenther, K.L. Roley, and W.G. McDougal), *Advances in Water Research*, 15(2), 1992, pp. 107-116.**
- Parameter Identification Using a Damped Wave Equation in a Porous Medium, (with F. Mohamed, R.B. Guenther, and W.G. McDougal), *Adv Water Res*, V15(2), 1992, pp. 117-123.**
- Influencia de Los Grupos de Olas Sobre la Estabilidad de los Diques en Talud, (with J.R. Medina and C. Fassardi), *Revista de Obras Publicós*, 1993, pp. 35-47 (in Spanish).**
- Second-Order Wave Loads on Planar Wavemakers, (with W. Sulisz), *Journal of Waterways, Port, Coastal and Ocean Engineering Div.*, 119(5), 1993, pp. 521-536.**
- Complete Second-Order Solution for Water Waves Generated in Wave Flumes, (with W. Sulisz), *Journal of Fluids and Structures*, 7, 1993, pp. 253-268.**
- The Fluid Jetster: A Water-Powered Wheeled Vehicle, (with K. Birky, S. Wright, C.**

- Lowe, and R.B. Guenther), *ASEE, J Engrg Education*, ASEE, 82(4), 1993, pp. 232-237.
- Convergence Criteria for Axisymmetric Green's Function with Application to Floating Bodies, (with T. Nakamura and C-K Pyun), *J Ocean Engrg*, 21(4), 1994, pp. 381-400.
- Breakwater Armor Damage Due to Wave Groups, (with J.R. Medina and C. Fassardi), *J of Waterways, Port, Coastal and Ocean Engrg*, 120(2), Mar/Apr 1994, pp. 179-198.
- Type E Double-Actuated Wavemakers, (with J.M. Grassa, J.R. Medina, and J. Lozano), *IAHR J. Hyd. Res.*, 32(3), 1994, pp. 387-400.
- Domain Mapping of 2-D Free Surface Flows with Surface Tension, (with S.J. De Silva and R.B. Guenther), *Applied Ocean Research*, 18(6), December 1996, pp. 293-302.
- Double-Peaked Spectra Generated by Double-Actuated Wavemakers, (with J.M. Grassa, J.R. Medina, and J. Lozano), *IAHR, J. Hyd. Res.* (in review).
- Discussion of Numerically Simulating Non-Gaussian Sea Surfaces, (with H. Tuah and M-C Chen) by B. Vanhoff, S. Elgar and R.T. Guza, *ASCE, J Waterways, Port, Coastal and Ocean Engrg*, 124(6), 1998, pp. 335-336.
- Discussion of An Improvement to Stokes Nonlinear Theory for Steady Waves, by V. Karambas and C.G. Routitas, *J Waterways, Port, Coastal and Ocean Engrg*, 125(3), MAY/JUN 1999, pp. 157-159.
- Are Cross-Waves Chaotic?, (with C. Boline and R. B. Guenther), *Applicable Analyses*, 72(2-3), 1999, pp. 287-326.
- Conditional Simulation of Laboratory Waves, (with L.E. Borgman and B. Samorsorn), *J Waterways, Port, Coastal and Ocean Engrg* V125(6), NOV/DEC 1999, pp. 311-321.
- Extension of Herglotz Algorithm to Nonautonomous Canonical Transformations, (with J. C. Orum, W. Black and R. B. Guenther), *SIAM Review*, 42(1), 2000, pp. 83-90.
- Discussion of Progression and Variability of Damage on Rubble Mound Breakwaters, (with J. R. Medina and C. Fasardi) by J. A. Melby and N. Kobayashi, *Journal of Waterways, Port, Coastal and Ocean Engineering*, 126(5), SEP/OCT 2000, pp. 268-70.
- Hydrodynamic Forces on Submerged Rigid Bodies - Steady Flow, (with R. B. Guenther and E. A. Thomann), *J. Mathematical Fluid Mechanics*, 4, 2002, pp. 187-202.
- Chaotic Analyses of Weakly Damped Parametrically Excited Cross Waves with Surface Tension, (with R. B. Guenther and S. Fadal), *Acta Mechanica*, 175(1-4), 2005, pp. 139-179.
- Discussion: Reflected and Transmitted Waves in a Channel with Side Porous Mattresses (W. Sulisz), *Coastal Engineering*, 55(12), 2008, pp. 1250-1251.
- Response to Reply: Reflected and Transmitted Waves in a Channel with Side Porous Mattresses (W. Sulisz), *Coastal Engineering*, 57(12), 2010, p. 778.
- Discussion: Generation and Propagation of Transient Nonlinear Waves in a Wave Flume (W. Sulisz and M. Paprota), *Coastal Engineering*, 56(8), 2009, pp. 895-896.
- Response to Reply: Generation and Propagation of Transient Nonlinear Waves in a Wave Flume (W. Sulisz and M. Paprota), *Coastal Engineering*, 57(9), 2010, pp.874-875.
- Penetration of Cylindrical Projectiles into Saturated Sandy Media, (with A. Kharab and R.B. Guenther), *Experimental Mechanics*, 49, 2010, pp. 605-612.
- Multiple Rectangular Resonators for Harbor Entrances, (with A.J. Wickerson), *IAHR* (in review).



### **Conference Proceedings**

**Determination of the Limiting Depth for the Stabilization of Submarine Cables, *Proc 8<sup>th</sup> U.S. Navy Symp on Military Ocean*, Naval PG School, Monterey, CA, 1971, pp. 78-88.**

**Comparison of Wave Forces Computed by Linear and Stream Function Methods, (with R.A. Dalrymple and R.G. Dean), *1974 Off Tech Conf*, OTC 2037, II, 1974, pp. 17-32.**

**Wave Force Predictions From Nonlinear Random Sea Simulations, *1975 Offshore Technology Conference*, OTC 2193, I, 1975, pp. 471-486.**

**Effects of Nonlinearities on Wave Power Estimates, *Proceedings, Wave and Salinity Gradient Energy Conversion*, Energy Research and Development Administration, University of Delaware, Newark, DE, May 24-26, 1976, pp. G-1 to G-23.**

**Analysis of Hinged Wavemakers for Random Waves, (with D.F. Jones and J.H. Nath), *Proc Sixteenth Coastal Engrg Conf*, ASCE, Hamburg, Germany, 1978, pp. 372-386.**

**Measured and Simulated Random Wave Forces, (with M.G. Grecco), *Proceedings Civil Engineering in the Oceans IV*, ASCE, San Francisco, CA, 1979, pp. 43-59.**

**Loads on Sea-Based Structures, (with J.W. Leonard), *ASCE, Structural Technology in the Ocean*, Preprint 3793, Atlanta, GA, 1979.**

**San Francisco Ocean Outfall Port Valve Development, (with L.E. Hanson, A.L. Davis, H.H.C. Lin and J.S. Readshaw), *Proc 1980 Hyd Specialty Conference*, ASCE, Chicago, IL, 1980, pp. 51-61.**

**Ocean Engineering for Undergraduates - A 'Right-Brain' Experience in Engineering Design, (with K.J. Williamson), *ASEE*, Los Angeles, CA, 1981.**

**The Generation of Random Waves in Wave Flumes by Nondeterministic Digital Simulation Methods, University of Delaware, August 24-25, 1981.**

**Non-Planar Beaches: Wave Induced Setup/Setdown and Longshore Current, (with W.G. McDougal), *IEEE, OCEANS 81*, pp. 834-840.**

**Non-Planar Beaches: Sediment Transport, (with W.G. McDougal), *IEEE, OCEANS 81*, pp. 841-846.**

**Green's Function of Diffraction Theory, (with Min-Chu Chen), *Proceedings Fifth Conference on Ocean Engineering*, Republic of China, Hualien, Oct 1-2, 1981, pp. 1-21.**

**Nonlinear Diffraction by Eigenfunction Expansion, (with Min-Chu Chen), *Proc Fifth Conference on Ocean Engr.*, Republic of China, Hualien, Oct. 1-2, 1981, pp. 37-71.**

**Hybrid Time Domain Model of Drifting Buoy, (with J.H. Nath), *Proceedings 1983 Marine Technology Society*.**

**Environmental Forces on Ocean Platforms, *NCEL Ocean Platforms Seminar*, TN N-1681, Naval Civil Engrg Laboratory, Port Hueneme, CA, November 1983, pp. 27-84.**

**Summary of Research Objectives, *NCEL Ocean Platforms Seminar*, TN No:N-1681, Naval Civil Engineering Laboratory, Port Hueneme, CA, Nov. 1983, pp. 269-277.**

**Nonlinear Transient Response of Deep-Ocean Pipelines, (with M. Zimmerman, J.W. Leonard, J. Tedesco, and L. Borgman), *Proc Pipelines in Adverse Environments II*, ASCE, San Diego, CA, Nov 1983, pp. 722-736.**

**Longshore Sediment Transport on Dean Beach Profiles, (with W.G. McDougal), *Proc 19th Coastal Engrg Conf*, II, Ch. 101, ASCE, Houston, TX, Sep 1984, pp. 1488-1506.**

- Comparison of Turbulent Lateral Mixing Models, (with W.G. McDougal), *Proc 19th Coastal Engineering Conf*, III, Ch. 214, ASCE, Houston, TX, Sept 1984, pp. 3197-3210.
- Laboratory Wave Forces on Vertical Cylinders, (with J.H. Nath, M-K Hsu, and J.M. Dummer), *Proc Ocean Struc Dynamics Sym '84*, Or. St. Univ, Sept 1984, pp. 312-330.
- Remarks on Parameter Identification in Groundwater Hydrology, (with R.B. Guenther and W.G. McDougal), Abstract, *A GU*, 1985 Fall Meeting, San Francisco, CA.
- Uniqueness of Parameter Identification in Groundwater Hydrology, (with R.B. Guenther and W.G. McDougal), *Fundamentals of Transport Phenomena in Porous Media*, Univ of Delaware, July 1985.
- High Reynolds Number Wave Force Investigation in a Wave Flume, (with J. Dummer and J.H. Nath), *Proceedings 1986 International Mechanics and Arctic Engineering Symposium (OMAE)*, I, Tokyo, Japan, April 13-18, 1986, pp. 113-122.
- Earthquake Response of Circular Cylindrical Structures in Water, (with Y. Tanaka), *Proceedings 1986 International Mechanics and Arctic Engineering Symposium (OMAE)*, Vol. I, Tokyo, Japan, April 13-18, 1986, pp. 655-662.
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