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PROCEEDINGS

- [1] R. Rocheleau, E. Miller, K. Bethune, and D.J. Wheeler, "Full Scale PEM Fuel Cell Research at the Hawaii Fuel Cell Test Facility: Recent Progress," In Proceedings of the 206th Electrochem. Soc. Meetings, Honolulu, HI, 2004.
- [2] B.Y. Liaw, K.P. Bethune, and C.S. Kim, "Time-Series Field Trip Data Analysis Using Adaptive Recognition Approach; Analysis on Driving Patterns and Vehicle Usage for Electric Vehicles," Proc. 19th International Battery, Hybrid, and Fuel Cell Electric Vehicle Symposium. Busan, Korea, 2002.
- [3] B.Y. Liaw, K.P. Bethune, and X.G. Yang, "Modeling Rapid Charge Conditions in a VRLA Traction Battery," In Proceedings of the 200th Electrochem. Soc. Meetings, San Francisco, CA, 2001.
- [4] B.Y. Liaw, X.G. Yang, and K.P. Bethune, "Integrated Battery Simulation and Characterization," In Solid State Ionics as a special edition of the Proceedings of SSI 2001, an invited paper for SSI 2001, Cairns, Australia, 2001.
- [5] B.Y. Liaw, X.G. Yang, and K.P. Bethune, "Advanced Battery Modeling and Rapid Charging Development," Proc. CIBF 2001. Beijing, China, p. 59, 2001.
- [6] B.Y. Liaw and K.P. Bethune, "On Validation of the Modeling of Overcharge Process in VRLA Cells," IEEE-01TH8533, Proc. 16th Annual Battery Conference on Applications and Advances, Long Beach, CA, p. 187-192, 2001.
- [7] K.P. Bethune and W.H. Hartt, "A Novel Approach to Cathodic Protection Design for Marine Pipelines: Part II - Applicability of the Slope Parameter Method," paper no. 674, presented at CORROSION/2000, Orlando, FL, March 26-31, 2000.

[8] W.H. Hartt, P. Pierson, and K.P. Bethune, "A Newly Developed Methodology for Projection of Potential Attenuation and Anode Current Output for Cathodically Polarized Pipelines," presented at the 3rd International Pipeline Technology Conference, Brugge, Belgium, May 22-24, 2000.

[9] P. Pierson, W.H. Hartt, and K.P. Bethune, "Potential Attenuation and Anode Current Output Determination Alternatives for Marine Pipelines and Risers," paper no. 628, presented at CORROSION/99, San Antonio, TX, April 25-30, 1999.

[10] D.V. Reddy, S.K. Lee, R.N. Sailappan, W. Ahn, G.V. Jeedigunta, and K.P. Bethune, "Corrosion Resistance and Fracture Toughness of High Performance Concrete in the Marine Environment," Proc. of the 6th CANMET/ACI International Conference on Fly Ash, Silica Fume, Slag and Natural Pozzolans in Concrete, Bangkok, Thailand, May 31-June 5, 1998.

University of Hawaii Information:

May 2003 - Present Assistant Specialist, Hawaii's Natural Energy Institute

July 2002 - May 2003 Research Support, Hawaii's Natural Energy Institute

July 2000 - July 2002 Research Assistant, Hawaii Natural Energy Institute

Other Professional:

1999-2000 Consulting Engineer, Hartt and Associates, Boca Raton, FL

1998-2000 Research Assistant, Center for Marine Materials, Florida Atlantic University at Seatech

1996-1998 Undergraduate Assistant, Center for Marine Structures and Geotechnique, Florida Atlantic University

Education:

2000 M.S. in Ocean Engineering at Florida Atlantic University

1998 B.S. in Ocean Engineering at Florida Atlantic University

Selected Publications:

[1] B.Y. Liaw, K.P. Bethune, and X.G. Yang, "Advanced Integrated Battery Testing and Simulation," Journal of Power Sources, Volume 110, Issue 2, p. 330-340, 2002.

[2] P. Pierson, K.P. Bethune, W.H. Hartt, and P. Ananthakrishnan, "A New Equation for Projection of Potential Attenuation and Anode Current Output for Cathodically Polarized Marine Pipelines and Risers," Corrosion, The Journal of Science and Engineering, Vol. 56, No.6, 2000

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