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RESUMÉ

DR. DAVID S. YANG

EDUCATION

B.Sc. Civil Engineering
National Taiwan University, Taipei, Taiwan
M.E. Civil Engineering
Tohoku University, Sendai, Japan
Ph.D. Civil Engineering
Purdue University, West Lafayette, Indiana, USA

PROFESSIONAL QUALIFICATIONS

Fellow, Center for Advanced Infrastructure and Transportation (CAIT), Rutgers, the State University of New Jersey
Licensed Civil Engineer, California
Licensed Geotechnical Engineer, California

PROFESSIONAL SOCIETIES

Member, American Society of Civil Engineers
Member, Deep Foundations Institute

PROFESSIONAL COMMITTEES

ASCE Ground Improvement Committee
DFI Deep Mixing Committee

DISTINCTIONS

Keynote Lecturer - Deep Mixing '05, the International Conference on Deep Mixing and the Swedish Deep Stabilization Research Centre, Stockholm, Sweden, 2005

National/Regional Report – Deep Mixing '09, the International Symposium on Deep Mixing and Admixture Stabilization, Okinawa, Japan, 2009

Keynote Lecturer - The International Symposium on Recent and Future Technologies In Coastal Development, Port and Airport Research Institute (PARI), Ministry of Land, Infrastructure, Transport, and Tourism (MLIT), Yokohama, Japan, 2010

PROFESSIONAL EXPERIENCE AND BACKGROUND

JAFEC USA, INC., SAN JOSE, CA, OCTOBER 2011 TO PRESENT

Dr. Yang is the Senior Vice President of JAFEC USA, Inc., a specialty company in the area of Soil Mix Wall method, Cement Deep Mixing method, Jet Grouting, Gravel/Sand Compaction Pile method and other ground improvement technologies. Dr. Yang is responsible for the applications of these soil-mixing technologies in the areas of geotechnical engineering and environmental engineering and provides technical support to owners and designers. Dr. Yang also provides consultation to JAFEC USA's construction team on quality control and quality assurance of the soil mixing work. Because of his experience and knowledge in numerous deep mixing projects in the United States and Japan, Dr. Yang has become an invaluable resource for the engineers and designers who are planning or designing deep mixing projects.

DSY GEOTECH, INC., FREMONT, CA, APRIL 2011 TO SEPTEMBER 2011

Dr. Yang is the principal of DSY Geotech, Inc. and offers advisory services in the practical and business aspects of specialty geotechnical construction, with a focus on ground improvement techniques.

RAITO, INC., SAN LEANDRO, CALIFORNIA, JANUARY 1998 TO MARCH 2011

Dr. Yang was the Vice President of Raito, Inc., a specialty company in the area of ground improvement technologies. Dr. Yang was responsible for the application of these soil-mixing technologies and provided technical support to owners and designers. Dr. Yang also provided consultation to Raito's construction team on quality control and quality assurance of the soil mixing work.

SMW SEIKO, INC., HAYWARD, CALIFORNIA, JANUARY 1988 TO DECEMBER 1997

Dr. Yang was the Vice President of SMW Seiko, Inc.; a company developed the Soil Mix Wall (SMW) method for installation of soil-cement walls for excavation support and groundwater control. He was responsible for the design, quality control, and quality assurance of the soil mixing wall work in the U.S.

J.V. Lowney & Associates, Palo Alto, California, 1985 to 1987

Dr. Yang provided geotechnical engineering consultation and testing services for various industrial, residential, and public works projects in Northern California.

ASSOCIATED GEOTECHNICAL ENGINEERS, SAN JOSE, CALIFORNIA, 1982 TO 1985

Dr. Yang worked for Associated Geotechnical Engineers in San Jose California as Project Engineer. His duties included cost estimates, consultations with clients and report preparation. Experience included seismic risk analysis, seismic response analysis, static and seismic resistance design of earth structures and sanitary landfills, and geotechnical studies for commercial, industrial and institutional facilities.

PURDUE UNIVERSITY, DEPARTMENT OF CIVIL ENGINEERING, PH.D. RESEARCH, WEST LAFAYETTE, INDIANA, 1977 TO 1982

David Yang worked at Purdue University as a Graduate Research Assistant. His performed research on anchored bulkheads by using Finite Element Method and Reliability Theory. He also assisted in foundation design for new construction for Purdue University.

TOHOKU UNIVERSITY, DEPARTMENT OF CIVIL ENGINEERING, SENDAI, JAPAN, 1974 TO 1977

David Yang worked as a Graduate Research Assistant at Tohoku University. His research focused on the dynamic properties of soils, rock, and other construction materials using the Resonant Column Apparatus and other vibration measuring devices.

PUBLICATIONS:

Dr. Yang is the co-author of the Federal Highway Administration Design Manual "Deep Mixing for Embankment and Foundation Support" published in October 2013 and the co-author of Chapter 3 - Mix-in Place Technologies of the book "Specialty Construction Technologies for Dam and Levee Remediation: The U.S. Technology Review" published in 2013.

Some selected publications on Deep Mixing Method are listed below:

- "Application of Deep Mixing Walls in the Warren Avenue Grade Separation Project, Fremont, Ca." Yang, D.S., Notaro, A.P., Wang, Y.D. and Watanabe, M., International Conference on Deep Mixing - Deep Mixing 2015, San Francisco, California, June 2015.
- "Deep Mixing for Levee Repair at Hurricane Protection Project, P-17A, Louisiana, USA" Shrestha, R., Griffin, R., Cali, P., Kafle, S., Watanabe, M., and Yang, D.S., International Conference on Deep Mixing - Deep Mixing 2015, San Francisco, California, June 2015.

- "Applications of Multi-shaft Deep Mixing in Coastal Areas Overseas," International Symposium on Recent and Future Technologies in Coastal Development, Port and Airport Research Institute (PARI) & Ministry of Land, Infrastructure, Transport and Tourism(MLIT), Yokohama, Japan, December 2010
- "Application of Multiple-Shaft Deep Mixing in the U.S.," Yang, D.S., National/Regional Reports, Deep Mixing 2009 Okinawa Symposium, Okinawa, Japan, May 2009
- "Application of CDSM for Embankment Stabilization," Yang, D.S., 5th International Conference on Landslides, Slope Stability & the Safety of Infra-Structures, Kuala Lumpur, Malaysia, July 2008
- "Application of DMM for Grade Separation / Interchange Projects," Yang, D.S. and Takeshima, S., International Conference on Deep Mixing – Best Practice and Recent Advances, Deep Mixing '05, Stockholm, Sweden, May 2005
- "Challenges of Employing Deep Mixing Methods in the US," Druss, D.L. and Yang, D.S., International Conference on Deep Mixing – Best Practice and Recent Advances, Deep Mixing '05, Stockholm, Sweden, May 2005
- "Application of Cement Deep Soil Mixing for Seismic Design and Remediation," Yang, D.S., APETT's 18th Annual Technical Conference on Engineering Infrastructure, Planning and Development for Disaster Preparedness and Mitigation, The University of the West Indies, Trinidad and Tobago, April 2005
- "Design and Construction of CDSM Slope Reinforcement for Seismic Retrofit of Pump Station," Dailer, D.M., and Yang, D.S., Geotechnical Special publications 136, Innovations in Grouting and Soil Improvement, Geo-Frontiers, January 2005
- "Quality Control of Cement Deep Soil Mixing Work for The Port of Oakland Projects," Yang, D.S., Coutu, C. J. and Scheibel, L.L., Fifth International Conference on case Histories in Geotechnical Engineering, New York, NY, April 2004.
- "Soil-Cement Walls for Excavation Support," Yang, D.S., Earth Retention Systems 2003: A Joint Conference presented by ASCE Metropolitan Section Geotechnical Group, The Deep Foundations Institute, and The International Association of Foundation Drilling, New York City, May 2003.
- "Oakland Airport Roadway Project," Yang, D.S., Scheibel, L.L., Lobedan, F., and Nagata, C., Soil Mixing Special Seminar, 26th Annual Conference, Deep Foundations Institute, Clayton, Missouri, 2001.
- "CDSM Soil Stabilization for Berth Construction at Port of Oakland," Herlache, W.A., WU, S.M., Rudolph, R.W., Anderson, J.E., and Yang, D.S., Pre-conference Symposium, AIT 40-year Anniversary Conference, Bangkok, Thailand, 1999.

- "Soil Improvement for Big Digs," Maher, A. and Yang, D.S., Editors, Geotechnical Special Publication No. 81, Proceedings of Sessions of Geo-Congress 98, ASCE, Boston, Massachusetts, 1998.
- "Dry Jet Mixing for Stabilization of Very Soft Soils and Organic Soils," Yang, D.S., Yagihashi, J.N., and Yoshizawa, S.S., Geotechnical Special Publication No. 81, Proceedings of Sessions of Geo-Congress 98, ASCE, Boston, Massachusetts, 1998.
- "Swing Method for Deep Mixing," Yang, D.S., Yagihashi, J.N., and Yoshizawa, S.S., Geotechnical Special Publication No. 81, Proceedings of Sessions of Geo-Congress 98, ASCE, Boston, Massachusetts, 1998.
- "Deep Mixing," Yang D.S., "Ground Improvement, Ground Reinforcement and Ground Treatment Developments 1987-1997, Edited by Vernon R. Schaefer, Geo-Institute Conference, Logan, Utah, 1997.
- "Vertical Barriers by Deep Mixing," Yang, D.S., International Containment Technology Workshop, Baltimore, Maryland, 1995.
- "Use of Soil Mixing at a Metals Site," Yang, D.S., Takeshima, S., Delfino, T.A. Rafferty, M.T., Air and Waste Management Association 88th Annual Meeting, San Antonio, Texas, 1995.
- Soil Mixing technology offers pollution containment, in situ fixation solutions," Yang, D.S. and Takeshima. S., Environmental Solutions, March 1995.
- "The Applications of Soil Mix walls in the United States," Yang, D.S. and Takeshima, S., Geotechnical News, Vol. 12, N0.4, December, 1994
- "Soil Mix Walls in Difficult Ground," Yang, D.S. and Takeshima, S., ASCE Convention, Atlanta, Georgia, 1994.
- "Nakajima Subsurface Dam," Yang, D.S., Takeshima. S., Nagata, S., et.al, Water Resources Planning and Management Division Conference, Denver, Colorado, 1994.
- "In-Situ Fixation of Arsenic and Heavy Metals in Soils," Henderson, L., Delfino, T.; Rafferty, M., Kimura, T., Lovell, D., Takeshima, S., and Yang, D.S., 1993 Summer National Meetings, American Institute of Chemical Engineers, Seattle, Washington.
- "SMW Wall for Seepage Control in Levee Reconstruction," Yang, D.S., Luscher, U., Kimoto, I., and Takeshima, S., Third International Conference on Case Histories in Geotechnical Engineering, St. Louis, Missouri, 1993.