



RESUME OF

FEI-CHIU (JERRY) HUANG, Ph.D., PE, GE, QSD, QSP

CHIEF ENGINEER/PARTNER

EMPLOYMENT HISTORY

2008 – Present	Chief Engineer/Partner AMERICAN GEOTECHNICAL, INC. Yorba Linda, California
2002 – 2008	Senior Engineer AMERICAN GEOTECHNICAL, INC. Yorba Linda, California
2000 – 2001	Part-time Faculty Department of Civil and Environmental Engineering CALIFORNIA STATE UNIVERSITY - FULLERTON Course Taught: EGCE418-Foundation Design Fullerton, California
1996 – 2002	Project Engineer AMERICAN GEOTECHNICAL, INC. Yorba Linda, California
1994 – 1996	Staff Engineer AMERICAN GEOTECHNICAL, INC. Anaheim, California
1993 – 1994	Post-Doctoral Fellow NORTHWESTERN UNIVERSITY Evanston, Illinois
1989 – 1993	Research Assistant NORTHWESTERN UNIVERSITY Evanston, Illinois
1987 – 1989	Graduate Teaching and Research Assistant UNIVERSITY OF CONNECTICUT Storrs, Connecticut
1983 – 1985	Second Lieutenant Engineering Officer CHINESE ARMY Taiwan, R.O.C.

EDUCATION

NORTHWESTERN UNIVERSITY
Evanston, Illinois
Ph.D. Civil Engineering (Geotechnical), 1993

UTAH STATE UNIVERSITY
Logan, Utah
M.S. Civil Engineering (Geotechnical), 1987

TAMKANG UNIVERSITY
Taipei, Taiwan, R.O.C.
B.S. Civil Engineering, 1983

CONTINUING
EDUCATION
SEMINAR

“Load and Resistance Factor Design (LRFD) for Geotechnical Engineering/Features, Earth Retaining Structures Mechanically Stabilized Earth (MSE) Walls,” Live Interactive Web Seminar, Sponsored by ASCE Continuing Education, Instructor, Naresh C. Samtani, PE, Ph.D., M. ASCE, NCS Consultants, April 4, 2011 (1.5 Professional Development Hours) (PDHs))

“Geo-Chemistry, An Important Tool for Geo-Environmental Engineers,” Live Interactive Web Seminar, Sponsored by ASCE Continuing Education, Instructor, Maria Chrysochoou, Ph.D., University of Connecticut, January 10, 2011 (1.5 Professional Development Hours) (PDHs))

“Deflection Calculation of Floors, Immediate; Long-Term; Cracking,” Live Interactive Web Seminar, Sponsored by ASCE Continuing Education, Instructor, Dr. Bijan O. Aalami, Professor Emeritus, San Francisco State University, Principal, ADAPT Corporation, November 4, 2010 (1.5 Professional Development Hours) (PDHs))

“Design and Rehabilitation of Foundations on Expansive Soils,” Live Interactive Web Seminar, Sponsored by ASCE Continuing Education, Seminar Instructor, Mr. Alexander Newman, P.E., September 20, 2010 (1.5 Professional Development Hours) (PDHs))

“Design of Landslide Stabilizing Piles by the Strength Reduction Method (SRM) and Other Methods,” Speaker: Dr. Daniel Pradel, G.E., FASCE, ASCE Los Angeles Section Geotechnical Group, Geo-Institute Los Angeles Changer, Los Angeles, September 15, 2010

“Applications of Deep Soil Mixing in Civil Engineering,” Continuing Education Program, Presented by Mr. Jeff Wykoff, P.E., RAITO, Inc., Yorba Linda, California, May 26, 2010

- “Avoiding Problems in Masonry Construction,” Live Interactive Web Seminar, Sponsored by ASCE Continuing Education and ASCE’s Structural Engineering Institute (SEI), Seminar Instructor, Mr. Alexander Newman, P.E., F. ASCE, January 10, 2010 (1.5 Professional Development Hours (PDHs))
- “Reinforced Concrete Design,” ACI/PCA Seminar, Fullerton, California, November 17-18, 2009 (1.5 Continuing Education Units (CEUs))
- “Underpinning and Strengthening of Foundations,” Live Interactive Web Seminar, Sponsored by ASCE Continuing Education and ASCE’s Structural Engineering Institute (SEI), Seminar Instructor, Mr. Alexander Newman, P.E., F. ASCE, August 19, 2009 (1.5 Professional Development Hours (PDHs))
- “Load and Resistance Factor Design (LRFD) for Geotechnical Engineering, Part I,” Live Interactive Web Seminar, Sponsored By ASCE Continuing Education And ASCE’S Geo-Institute (GI), Seminar Instructor, Mr. Jerry A. Dimaggio, P.E., M.ASCE, August 7, 2009 (1.5 Professional Development Hours (PDHs))
- “Current Research in Drained Residual Strength for Landslides,” Speaker: Timothy D. Stark, Ph.D., Geotechnical Engineering Group of Los Angeles Section of ASCE, Los Angeles, CA, June 17, 2009
- “Soil Liquefaction During Earthquakes – The Cliffs Notes Version,” Speaker: California Geotechnical Association, Irvine, CA, June 11, 2009
- “Vapor Barriers: Nuisance or Necessity?” Educational Seminar, STEGO Industries LLC, Yorba Linda, CA, June 9, 2009
- “Renovation of Slabs on Grade, “ ASCE Web Seminar, April 28, 2009
- "A Short Course on Geotechnical Site Investigation Using the Cone Penetration Test, " By Dr. Peter K. Robertson, Gregg Drilling & Testing, Inc., February 27, 2009 (8 Professional Development Hours (PDH's))
- “Understanding the Conversion from “AR” (Aged Residue) Spec Asphalt Concrete to “PG” (Performance Graded) Spec Asphalt Concrete,” ASCE Seminar, Orange County Branch of ASCE, Costa Mesa, CA, March 17, 2006
- "Slope Stabilization Workshop, Ruvolum Dimensioning for Tecco Systems," Geobrugg Academy, Norwalk, CA, October 14, 2003
- "Soil Liquefaction Engineering: Recent Advances and New Understandings," Speaker: Professor Raymond B. Seed, 26th Spring Seminar, Geotechnical Engineering Group of Los Angeles Section of ASCE & the Geo-Institute, Long Beach, CA, April 30, 2003

"Workshop on Recommended Procedures for Implementation of DMG Special Publication 117: Guidelines for Analyzing and Mitigating Landslide Hazards in California," February 20-21, 2003, Southern California Earthquake Center, University of Southern California

"Flood Control Basics Seminar," ASCE Orange County Flood Control, January 31, 2003

"Design of Slabs-on-Grade," American Concrete Institute, San Diego, 1994

PROFESSIONAL
REGISTRATIONS

State of California, Registered Civil Engineer, No. C55670
State of California, Registered Geotechnical Engineer, No. GE2601
State of California, Governor's Office of Emergency Services (OES), Post-Disaster Safety Assessment Program (SAP) Evaluator, No. SAP63537
California Stormwater Quality Association (CASQA) – Qualified SWPPP Developer (QSD) – Certificate No. 20136
California Stormwater Quality Association (CASQA) – Qualified SWPPP Practitioner (QSP) – Certificate No. 20136

HONORS AND
AWARDS

Strathmore's Who's Who, 2009
Extra Efforts Award, American Geotechnical, Yorba Linda 2005
Top Producer Award, American Geotechnical, Yorba Linda, 2003
America's Registry of Outstanding Professional, 2002-2003; 2006-2007
Employee of the Year, American Geotechnical, Anaheim, 1997
Who's Who in International Professional, 1996

PROFESSIONAL
AFFILIATIONS

American Society of Civil Engineers (ASCE)
Geo-Institute (GI)
International Society of Soil Mechanics and Foundation Engineering (ISSMGE)
Deep Foundation Institute (DFI)

PROFESSIONAL
SERVICES

Organizing Committee Member, 2010 Deep Foundation Institute (DFI) 35th Annual Conference on Deep Foundations – Hollywood, CA, October 13–15, 2010

Session Chair and Moderator, Section One-Deep Foundation, 2010 Deep Foundation Institute (DFI) 35th Annual Conference on Deep Foundations – Hollywood, CA, October 13-15, 2010

Reviewer, Proceedings of 2010 Deep Foundation Institute (DFI) 35th Annual Conference on Deep foundations, Hollywood, CA, October 13 –15, 2010

State of California, Governor's Office of Emergency Services (OES), Post-Disaster Safety Assessment Program (SAP) Evaluator, No. SAP63537

Subject Matter Expert (SME), State of California, Board of Professional Engineers and Land Surveyors, 2003

Reviewer, Proceedings of the First Symposium and Workshop on Time Domain Reflectometry, Northwestern University, Evanston, IL, September 7-9, 1994

PUBLICATIONS

- "Design and Construction of Shear Pins for Landslide Stabilization," 2010 Deep Foundation Institute 35th Annual Conference, Hollywood, California, October 12-15, 2010 (Accepted for publication)
- "Water Pressure Measurement with Time Domain Reflectometry Cables," Geotechnical Testing Journal, GTJODJ, Vol. 19, No. 1, March 1996, pp. 58-64. (Co-authored with Dowding, et. al.)
- "Design Considerations and Field Load Test of a Helical Anchoring System for Foundation Renovation," ASCE Geotechnical Special Publication No.50, Foundation Upgrading and Repair for Infrastructure Improvement, October 1995, pp. 76-88.
- "Telemetric and Multiplexing Enhancement of Time Domain Reflectometry," Proceedings of the First Symposium and workshop on Time Domain Reflectometry, Northwestern University, September 7-9, 1994, pp. 34-45.
- "Ground Water Pressure Measurement with Time Domain Reflectometry," (Co-authored with Dowding) Proceedings of the First Symposium and Workshop on Time Domain Reflectometry, Northwestern University, September 7-9, 1994, pp. 247-258.
- "Effects of Multiple Crimps and Cable Length on Reflection Signatures from Long Cables," (Co-authored with Pierce, et. al.) Proceedings of the First Symposium and Workshop on Time Domain Reflectometry, Northwestern University, September 7-9, 1994, pp. 540-554.
- "Early Detection of Rock Movement with Time Domain Reflectometry," (Co-authored with Dowding) Journal of Geotechnical Engineering, Vol. 120, No. 8, ASCE, 1994, pp. 1413-1427.
- "Automatic, Remote, Multiplexed Geotechnical Measurements with Time Domain Reflectometry," (Co-authored with Dowding). First Congress on Computing in Civil Engineering in conjunction with A/E/C Systems '94, Washington, D.C., ASCE, June 20-22, 1994.
- "NUMOD and NUTSA: Software for Interactive Acquisition and Analysis of Time Domain Reflectometry Measurements," Information Circular 9346, U.S. Bureau of Mines, 1993.
- "Final Report, Corrosion of Driven Steel Piles," JHR 90-193, May 1990, Department of Transportation, State of Connecticut, (Co-authored with Long) 45 pp.

PAPER PRESENTED AT SYPOSIUM

"Telemetric and Multiplexing Enhancement of Time Domain Reflectometry," Proceedings of the First Symposium and workshop on Time Domain Reflectometry, Northwestern University, September 7-9, 1994, pp. 34-45.

UNPUBLISHED BOOK

"NUVIB: Northwestern University Vibration Analysis Software User's Manual," Department of Civil Engineering, Northwestern University, 1993.

COMPUTER SKILLS

Geotechnical: GSTABL7 with STEDWin V. 2.004; GeoSLOPE; STABL for Windows 3.0; DigiPro; A-Pile; L-Pile; EQ-search; EQ-Fault; Frisk II
Structural: PCAColumn; PTISlab 3.0
General: Microsoft Office (Word, Excel, Powerpoint);
Hands-on spreadsheets for various geotechnical engineering analyses and designs (including retaining walls, slope stabilization, tiebacks, soil nails, pile walls, caissons, pile capacity chart, geogrid design, pavement design, liquefaction and seismic analysis, etc.)

PROFESSIONAL EXPERIENCE SUMMARY

Dr. Huang began his professional career more than 27 years ago and has been with American Geotechnical since 1994. Dr. Huang received his Ph.D. degree from Northwestern University in 1993. His primary duties were focused on project planning and management, site characterization, analysis & interpretation of subsurface data, static & dynamic design and analysis of shallow and deep foundations, pavement design, liquefaction analysis, as well as earth retaining & stabilizing structures. He also investigated landslide & slope stability problems. His current duties included client contact, proposal preparation, planning geotechnical and forensic investigations, engineering data analyses, foundation design and recommendations, project management, as well as report writing. Dr. Huang has involved various types of construction projects including new construction, grading, landslide stabilization, slope repair, etc.

Dr. Huang also has more than 17 years of geotechnical forensic investigation experience. He has worked on various construction litigation projects for lawyers, homeowner associations, insurance companies, financial institutions, and major developers in California. He has investigated various foundation problems, and designed treatments including shallow and deep foundation repairs, retaining structures stabilizations, landslide/slope stabilizations, groundwater problems, and pavement rehabilitation, etc.

Dr. Huang has conducted subsurface investigations on project involving pavement distresses on multiple public streets for the City of La Habra. He evaluated the existing pavements of the streets and designed various types of repair options for the street rehabilitations. Dr. Huang also involved other pavement design projects including street pavement rehabilitation of Fashion Way in City of Torrance and evaluation and design of pavement rehabilitation options for the PGA West II residential community in City of La Quinta. He also involved in various residential and commercial projects related to pavement analyses and design.