

CHRISTINE ANNE HUMAN

281 Nottingham Terrace
Buffalo
N.Y. 14216
Tel. (716) 873 2677

Education

University of California, Berkeley, PhD in Geotechnical Engineering, July 1992
Dissertation title: Time dependent property changes of recently deposited or densified sands
Minor fields: Geological Engineering and Engineering Analysis
Thesis adviser: Prof. J.K. Mitchell
University of California, Berkeley, MS in Geotechnical Engineering, 1986, GPA 3.87/4.0
Institution of Civil Engineers, UK, Civil Engineering Law and Contract Procedures, 1985 (papers 1,2)
University of Manchester, UK, BS in Civil Engineering, First Class, 1982

Employment

SUNY at Buffalo (Spring 2003 to present)

Lecturer

Director of Undergraduate Studies for the Civil Engineering Program (Fall 2011 to present)
Instructor for EAS 209 Mechanics of Solids, CIE 361 Undergraduate Laboratory, CIE 334 Soil Mechanics, CIE 415 Professional Practice Issues, CIE 435 Foundation Engineering, , CIE 437/529 Pavement Materials and Design, CIE 439 Transportation Systems Design and CIE 101 Civil Engineering Creations.

Polytechnic University, Brooklyn (Fall 1999)

Adjunct Professor

Instructor for CE417 Foundation Engineering, senior class given at Long Island (Farmingdale) Campus.
Received teaching commendation from ASCE Student Chapter.

Mueser Rutledge Consulting Engineers, New York (June 1995 to October 1997)

Senior Engineer

Experience in design of soil-bentonite hydraulic barriers. Projects included evaluation of an existing soil-bentonite wall to determine the cost effectiveness of extending the wall, review of geotechnical information and construction records to assess the source of seepage at a site where a soil-bentonite barrier had been constructed and design of new hydraulic barriers for both site remediation and groundwater control. Design projects followed from review of the available geotechnical information, through the site investigation, laboratory testing, analysis and design, to production of contract drawings and specifications. Other projects included geotechnical engineering services to three separate consulting teams providing cover alternatives for a large New York City reservoir, stability analysis of a roller compacted dam in North Carolina, geotechnical engineering for deepening of a berth along the New Jersey waterfront and site specific seismic analysis of a large public building in Brooklyn. For this latter project the computer programs SIMQKE and SHAKE were used. Also involved in several projects where MRCE provided expert testimony. Personally attended one mediation hearing.

Dar Al-Handasah Consultants (Shair and Partners) Lebanon (Feb 1993 to Nov 1994)

Engineer

Prepared site investigation tender documents and carried out site supervision for several major projects in Lebanon including the new Beirut International Airport, Beirut Central District Reconstruction and many smaller projects. Provided design recommendations on some of the above projects, predominantly foundation design and pavement design. Prepared specifications for earthworks and excavation support. Also involved in design review of 88 km highway in Jordan.

University of California, Berkeley (Fall 1988 to Spring 1992) Research Assistant
Conducted research into time dependent property changes of recently deposited or densified clean sand. This project included measurement of shear wave velocity, electrical conductivity and cone penetration resistance in the laboratory and a field study of the change in cone penetration resistance with time after the 1989 Loma Prieta Earthquake.

University of California, Berkeley (Fall 1986 to Spring 1988) Teaching Assistant
Assisted with graduate and undergraduate soil mechanics and undergraduate groundwater classes.

University of California, Berkeley (Summer 1986) Research Assistant
Modeled the behavior of a reinforced embankment built on peat using finite elements. Results of the analysis were presented at a prediction symposium held in London, England.

WS Atkins and Partners, Surrey, UK (Sept 1983 to Aug 1985) Trainee Civil Engineer
Carried out small geotechnical investigations from desk study through preparation of plans and specifications, contractor selection, site supervision and production of the final engineering report. Field experience also included six months site supervision for a large motorway site investigation (M20). Designed flood protection embankment (Algeria), piles for a multi-story parking structure, the retaining walls for a boiler house basement extension and performed a back analysis of a motorway interchange failure.

Soil Mechanics Ltd., Berkshire, UK (Oct 1982 to Aug 1983) Geotechnical Engineer
Produced a factual report for a large motorway (M11) site investigation. Assisted in design projects using in-house computer programs.

Publications

C.A. Human, R.B. Seed, J.K. Mitchell and R.I. Borja, "Prediction of the Stansted Abbotts Trial Embankment", Proceedings of The Prediction Symposium of a Reinforced Embankment on Soft Ground, 17-18 Sept 1986, Kings College London.

P.J.M. Monteiro and C.A. Human, "Blended and Modified Cements", Cements Research Progress, 1989, Cements Division American Ceramics Society, 1990

P.J.M. Monteiro and C.A. Human, "Blended and Modified Cements", Cements Research Progress, 1990, Cements Division American Ceramics Society, 1991

Awards

Edgar Morton Prize for Geotechnical Subjects, Manchester, 1982
Outstanding Graduate Student Instructor, UC Berkeley, 1988

Fellowships

WS Atkins Scholarship, 1985
Earle C. Anthony Fellowship, UC Berkeley, 1985
Nato/SERC Studentship, 1985/1987/1988