

ROBERT M. HOYT, P.E., F.ASCE
President/Principal Engineer
Hoyt Engineering Associates, PC
3105 S. Fallbrook Court
Blue Springs, MO 64015

EMPLOYMENT HISTORY

- 2004 – Present. Hoyt Engineering Associates, Blue Springs, MO. President and Principal Engineer of consulting engineering firm serving all facets of the helical pile and push pier industry.
- 2000 – 2004 Atlas Systems, Inc., Independence, MO. Vice-President, Engineering for a helical pile and push pier manufacturer.
- 1981 – 2000 A. B. Chance Co., Centralia, MO. Held various management positions including Principal Engineer, Engineering Manager, and Manager, Design Analysis for a manufacturer serving the electric utility and civil construction industries.
- 1979 - 1981 McGraw-Edison, East Stroudsburg, PA. Project Engineer for a manufacturer serving the electric utility industry.
- 1972-1978 A. B. Chance Co., Centralia, MO. Engineer for a manufacturer serving the electric utility and civil construction industries.

EXPERIENCE SUMMARY

Developed helical pile and push pier products for three different manufacturers. Represented one manufacturer in various litigations involving earth anchor and pole line hardware products. Acted as in-house consultant, training other engineers in the use of computer-aided analysis and design techniques and software. Conducted industrial research on the behavior of helical piles. Developed preliminary designs and performed peer reviews of designs for foundations and foundation repairs using helical piles and push piers.

EDUCATION

BSE, University of Arkansas, Fayetteville, 1972. Postgraduate study in soil mechanics, structural mechanics and soil-structure interaction, University of Missouri, Columbia and University of Arkansas, Fayetteville.

PUBLICATIONS

Gregory, S. D. and R. M. Hoyt, "Strength Assessment of Helix Plates for Helical Piles", Third DFI Specialty Seminar on Helical Foundations and Tiebacks, Torrance, CA, 2005, 8 pp.

Hoyt, R. M., *Drive Rite Piering System Engineering Manual*, Foundation Structural Supply, Decatur, AL, 2005, 134 pp.

Hoyt, R. M., *Ram Jack Engineering Handbook*, Ram Jack Foundation Repair Systems, Garland, TX, 2005, 138 pp.

Hoyt, R. M. et al., "Buckling of Helical Anchors Used for Underpinning", *Foundation Upgrading and Repair for Infrastructure Improvement*, Geotechnical Special Publication No. 50, American Society of Civil Engineers, New York, 1995, pp. 89-108.

Hoyt, R. M. and S. P. Clements, "Uplift Capacity of Helical Anchors in Soil", *Proceedings of the Twelfth International Conference on Soil Mechanics and Foundation Engineering*, Rio de Janeiro, Vol. 2, 1989, pp. 1019-1022.

TECHNICAL SEMINARS AND PRESENTATIONS

"Helical Pile Installer Certification", seminar presented at the first annual Earth Contact Products Dealer Meeting, Las Vegas, 2005.

"Ensuring Construction Quality for Helical Piles", Foundations Technology Seminar on Helical Foundations and Tiebacks, Deep Foundations Institute, Cincinnati, OH, 2003.

"Earth Anchor Applications", seminar presented to the Rural Utilities Service, Washington, DC, 1998.

LITIGATIONS

Clemans v. A. B. Chance and Foundation Anchoring Systems, Inc. (A. B. Chance company representative and witness for defense).

Georgia Pacific Corporation, et al., v. F & W Construction Company, et al. (A.B. Chance company representative and witness for defense).

IPCO/G&C Joint Venture, et al., v. Energy Structures Incorporated, et al. (A.B. Chance company representative & witness for defense).

Van Ervelde v. Simon-Telelect and A. B. Chance (A. B. Chance company representative and witness for the defense).

Milazzo v. Master Builders Construction, et al. (A. B. Chance company representative and witness for the defense).

Rodriguez v. A. B. Chance, et al. (A. B. Chance company representative).

Richard Ruiz and Foundation Anchoring Systems, Inc. v. A.B. Chance Company (adverse witness for plaintiff, witness for defense).

PROFESSIONAL AFFILIATIONS

Fellow, American Society of Civil Engineers.

Founding Member, Geo-Institute

Member, International Society for Soil Mechanics and Foundation Engineering.

Member, Deep Foundations Institute

TECHNICAL ACTIVITIES

Chair, Deep Foundations Institute Committee on Helical Foundations and Tiebacks, 2005 – present.