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NGWA Presentation to IAH 2010 Congress

Krakow, Poland

Auditorium Maximum Building, Krupnicza Street no. 33

12 September 2010

1400 to 1730 hours

Course Title and Theme: "Drilling Technologies for Groundwater Extraction"

Course Description:

Although the machinery may seem different around the world, the fundamental technologies for water well or water borehole construction are nearly universal. This presentation will provide an in-depth review of the advantages and disadvantages of the following water well drilling technologies as each relates to geologic site conditions and depth to groundwater: dug, driven point, auger, boring, jet, cable tool, air rotary, mud rotary, down-the-hole hammer, dual rotary, sonic and reverse circulation rotary. Video will be utilized to explore air rotary, bucket, cable tool, down-the-hole hammer, dual rotary, sonic and reverse circulation drilling techniques.

Main Goals/Learning Objectives:

- Identify and explain drilling technologies used to construct water wells
- Relate geologic site conditions and depth to groundwater to each drilling technology
- Distinguish advantages and disadvantages of each drilling technology, including costs of operation in relation to geologic site conditions

Presenter Biography: Arthur Becker, MGWC, CPG

A Certified Professional Geologist, Becker holds drilling licenses in 11 states of the United States of America and is a National Ground Water Association (USA) certified Master Ground Water Contractor (MGWC). Becker is employed as an executive at SGS North America Inc. Environmental Drilling Division. SGS North America is a member of the SGS Group, one of the world's leading testing and certification companies, represented by 60,000 employees in more than 140 countries.

He is chairman of the New Jersey State (USA) Well Drillers and Pump Installers Licensing and Examining Advisory Board. Becker is a geology graduate of Rutgers, The State University of New Jersey-New Brunswick (USA) and is the president-elect of the National Ground Water Association (USA).