

THOMAS J. CRAWFORD
REGISTERED PROFESSIONAL GEOLOGIST
GEORGIA LICENSE NUMBER 320

EDUCATION

Graduate of Emory University: AB, Geology, 1956
MS, Geology, 1957

EXPERIENCE

Geologist (WAE), U.S. Geological Survey; stratigraphy, structure and mineral resources of the Pennsylvania System of Georgia, 1976-1982; stratigraphic and structural investigations along the Emerson (Cartersville) - Great Smoky Fault Systems, 1977-1978; geology of the Appalachian Orogen, 1976 - 1997.

Professor of Emeritus and Adjunct Professor, Department of Geology, University of West Georgia 1996 - present.

Professor, Department of Geology, West Georgia College, 1974- 1996.

Associate Professor, Department of Geology, West Georgia College, 1970- 1974

Assistant Professor, Department of Geology, West Georgia College, 1967 - 1970.

Research Associate, Department of Geology, University of Georgia, 1963 - 1967. Areas of Responsibility: economic mineral investigations and mineral resource development in northeast, central-east, and northwest Georgia designed to locate and determine the type, size and quality of mineral deposits in these areas, and outline specific steps for their development.

Geologist, Kentucky Geological Survey, University of Kentucky, 1957 - 1962,
Areas of responsibility: economic mineral and oil and gas investigations; geologic mapping; editing of geologic publications; supervision of geologic records library and sample library; public relations and service to landowners through the identification and appraisal of rock and mineral deposits.

A total of thirty-eight years experience with academic and research institutions, and federal agencies:

Twenty-one years (WAS) with the U.S. Geological Survey;
Twenty-nine years teaching and research at West Georgia College;
Four and one half years research at the University of Georgia; and
Five and one half years research at the University of Kentucky.

FORCON INTERNATIONAL

Kath, R.L., and Crawford, T.J., 1998, Geologic and structural setting of a flowing artesian well at the Crystalline-Rock Hydrogeologic research station, the State University of West Georgia, Carroll County (abstract): Georgia Journal of Science: in press.

Crawford, Thomas J., and Higgins, Michael W. in press. Changes in stratigraphic nomenclature in the Atlanta, Athens, and Cartersville 30' X 60' quadrangles, Georgia. United States Geological Survey Bulletin.

Crawford, Thomas J., Higgins, Michael W., and others, in review. Geologic map of the Atlanta 30' X 60' 1:100,000 quadrangle, Georgia. United States Geological Survey.

Crawford, Thomas J., Higgins, Michael W., and others, in review. Geologic map of the Athens 30' X 60' 1:100,000 quadrangle, Georgia. United States Geological Survey.

CONSULTING

Mineral Resources, Groundwater, Land Stability related to construction projects, Geologic Mapping:

- U.S. Geological Survey, Water Division
- Georgia Department of Natural Resources
- The Southern Company (Georgia Power)
- Florida Rock Industries
- Woodward - Clyde Engineers, Inc.
- John J. Harte Associates, Inc., - Architects, Engineers
- Martha Berry College
- Engelhard Corporation
- Crystal Springs Waters
- Fuji Development
- Golder Associates
- Middle Georgia Water Systems, Inc.
- Cyprus Minerals
- Sweitzer and Peoples Eng., Inc.
- Williams, Sweitzer, and Barnum Rug., Inc.
- City of Rockmart--Ground Water
- Polk County--Ground Water
- Walker County--Ground Water
- Cobb-Marietta Water Authority--Ground Water

Numerous county and municipal governments, water districts, companies and individuals; particularly in relation to availability of, and exploration for, groundwater; and evaluation of mineral resources.

PERSONAL RESEARCH

Personal research has been directed toward an understanding of the stratigraphy and structure of the Piedmont, and the relationship between the Piedmont and Valley and Ridge. Opportunities to pursue this have been enhanced by research grants from the National Science Foundation and West Georgia College, and contracts with the Georgia Department of Natural Resources, Barth and Water Division, and work with the U.S. Geological Survey.

Eight years working on the stratigraphy, structure, and coal resources of the Pennsylvanian System of Georgia.

Thirty-one years of applied research and practice in hydrogeology; particularly, relating to ground water in igneous and metamorphic rocks.

OTHER ACTIVITIES

Attended conferences and participated in field trips for the Southeastern Geological Society of America, and at the Georgia Academy of Science, and meetings of the Georgia Groundwater Resources, and the Georgia Groundwater Association/Georgia Water Well Drillers Association; an invited speaker at the latter meeting in 1989; organized and led a panel discussion on "Drilling Problems" at the 1990 meeting.

Served as co-leader for the 1996 Georgia Geological Society Field Trip. Presented two papers at the 1995 Georgia Water Resources Conference. Presented paper at the 1994 Geological Society of America. Southeastern Section Meeting. Presented three co-authored papers at the 1991 Georgia Groundwater Resources Conference: (1) Site-specific Investigations: Methods of Exploration for Groundwater and Explanations for well yield in the Piedmont and Blue Ridge Provinces of North Georgia. (2) Ground Water Supply Assessment and Section 404 Permitting for Water Supply Reservoirs. (3) High-yielding wells in metamorphic rocks--influencing factors. Field Trip leader for the 1994 Georgia Geological Society Meeting.

PUBLIC SERVICE

Served as Chairman (appointed by the Governor) of the Georgia Board of Registration for Professional Geologists, and as Georgia's representative to the Organizational Meeting for an "Association of State Boards of Registration for Geologists" in the spring of 1990. Served as Present-elect (1992) of the (National) Association of State Boards of Registration for Geologists. President in 1993, and on the Executive Committee in 1994. Serving (appointed by the Governor) on the Technical Assistance Committee of the Georgia Hazardous Waste Commission.