
PING WANG, Ph.D.

PROFESSIONAL HISTORY

- Proj. Mgr/Sr. Software Engr., AATA International, Inc. (July 2001 – Present)
- Senior Software Engineer, IHS Enterprise Solutions, Inc. (Dec. 2000–June 2001)
- Senior Software Engineer, Communicate, Inc. (July 2000 – Nov. 2000)
- Project Manager, AATA International, Inc. (Nov. 1993 – July 2000)
- Exploration Geologist, Shell Oil Company (Dec. 1991 – Oct. 1993)
- Instructor, NE University of Geology, China (March 1985 – Aug. 1986)

EDUCATION

- Ph.D. Geology (1991), Virginia Polytechnic and State University (Virginia)
- M.S. Geology (1985), NE University of Geology (China)
- B.S. Geology (1983), NE University of Geology (China)
- Oil and gas exploration training - Shell Oil Training Department (Texas)
- Environmental Technology - North Harris College (Texas)
- Computer Sciences Professional Training Program- Front Range Community College (Colorado)

TECHNICAL SPECIALTIES

Senior Software Engineer – Designed and developed Web-based Environmental Information Management System (WEIMS), a fully searchable database management system for large-scale multinational environmental projects. VB Script/VB.NET, Java Script ASP/ASP.NET, MS Access and HTML/D-HTML were utilized extensively. Also developed telecommunication and database searching computer applications using C/C++ and Visual Basic.

Program Manager / Geologist - Conducting interdisciplinary environmental and geological studies, assessments, and reports. Evaluating natural resource potentials in China. Technical and business development for oil and gas, mining, environmental industries, and hydroelectric power planning in China.

Exploration Geologist - Responsible for generating oil and gas prospects. Technical specialties include well log and seismic line correlation and interpretation, subsurface geologic mapping, basin evolution and petroleum generation studies, prospect and drill site development and computer applications in petroleum exploration.

University Instructor - Responsible for teaching and research. Experienced in lecturing and fieldwork instructing. Research programs include surface and subsurface geologic mapping, tectonic evolution of rift basins, drainage basin surveying, groundwater flowing pattern and contamination analysis, as well as studies on recent geologic activities and their implications in hydrogeology.

REPRESENTATIVE PROJECT EXPERIENCE

AATA International, Inc. - Offshore oil and gas EIA in the Caspian Sea (AIOC). Evaluation of existing oceanic environment and the EIA documents prepared during the first phase of the project. Prepared an EIA for the production phase.

AATA International, Inc. – Oil and gas EIA for the Eastern Orenburg Field, Russia Prepared an EIA for OPIC / EBRD on the expansion of the Eastern Orenburg Field (originally in 1998 then updated in 2001).

AATA International, Inc. – Natural gas pipeline from Bolivia to Brazil. Conducting environmental monitoring on the construction of the 650-km Cuiaba Pipeline. Designed and developed an interactive, web-based environmental information management system (WEIMS), which includes a fully searchable and browsable database containing over 20,000 records of field reports, digital pictures and digital video clips.

AATA International, Inc. - Offshore oil and gas EIA in Myanmar. Baseline data collection and evaluation. Preparing EIA documents for production drilling, offshore pipeline construction and operation, and the first phase of production operations.

AATA International, Inc. - Environmental auditing and contingency program. Conducted an environmental audit and developed a contingency program for an oil and gas field in central Venezuela. Project included a 10-day on-site visit.

AATA International, Inc. - Limestone deposit in Honduras. Worked as the chief geologist of the project. Supervised the entire geologic exploration program including geological mapping, drilling, core sampling, and evaluation.

AATA International, Inc. - Waste management plan for oil and gas operations in Venezuela. Conducted a detailed review of existing regulations and standards (Venezuelan and international) on wastes generated by oil and gas operations. Searched and reviewed the most updated technical publications on oil/gas waste management (mitigation, treatment, and disposal). Wrote the Waste management plan for two oil fields.

AATA/China Link - Volcanic gold prospects in China. Spent over five weeks in China, visited six provinces and reviewed over 20 volcanic gold prospects. Produced

four volumes of reports including detailed geologic maps, cross sections, color photos and tapes recorded while interviewing local geologists and relevant government officials. Prioritized the prospects reviewed and recommended the best properties for further studies. Further extended China Link's network in southern China.

AATA International, Inc. - Uranium deposits in Mongolia. Four weeks of on site work in Mongolia to collect geological and environmental data regarding the project. Reviewed reports, maps and cross sections completed by Russian and Mongolian geologists and environmental professionals. Produced a comprehensive report on the current mining operation and environmental evaluation.

AATA/China Link - Gold deposits in China. Five weeks of field and indoor work in China to collect and analyze data for gold projects. Produced four gold geology reports including specific gold deposits in NE China, an overview of gold prospects in Heilongjiang Province, and an overview of large gold prospects in the whole country. Secured solid contacts in both the central and local governments, especially among the Ministry of Geology and Mineral Resources and its provincial branches (the Geology Bureaus).

AATA/China Link - Conducted a review study on the mineral resources and opportunities in China including the production history of different types of metals and coal, distribution of these commodities, evaluation of the prospective areas, construction of the Chinese mineral resource organizations and how to be more successful in the booming Chinese business.

AATA/China Link - Conducted a detailed study on China sedimentary basins and their hydrocarbon potentials. Wrote two petroleum geology reports on the Hailar Basin and the Sanjiang Basin in NE China. The reports reviewed regional geology and tectonics, source reservoir seal rock distribution, their physical-chemical properties, trapping styles and estimated hydrocarbon reserve.

AATA, International, Inc. - Environmental Management Plan and water quality assessment of the Batu Hijau gold/copper mine, Sumbawa, Indonesia. Conducted a detailed review on existing environment work reports. Proposed and revised environmental management plan. Conducted a detailed computer modeling on the dilution of mine waste discharge into the ocean. Evaluated the impact of thermal discharge from the proposed power plant based on results from computer modeling and oceanographic survey data.

AATA, International, Inc - Soil and water quality assessment of the Monywa Copper Mine, central Myanmar. Wrote several chapters for the EIS report on geology, water quality QA/QC, water quality assessment, soil quality assessment.

AATA/China Link - Groundwater quality of the Denver Basin, Colorado. Reviewed all available publications on the water quality of the Denver Basin. Visited field sites where groundwater quality has been a problem. Wrote a report on factors that affect groundwater quality in the Denver Basin and the role of oil and gas exploration in this area.

Shell Oil Company - Onshore and offshore hydrocarbon exploration on the Texas coast of the Gulf of Mexico. Conducted geologic studies in the Miocene sequence; correlated and interpreted over 500 well logs; constructed sand and isopach maps, and identified sand fairways; evaluated hydrocarbon potential in areas nominated by competitors for Texas State Lease Sales; proposed practical business strategies for each Lease Sale; and generated five prospects and one drill site.

Shell Oil Company - Detailed field study in Terrebonne Parish, Louisiana. Completed a detailed field study in the Gibson-Humphreys field; correlated and interpreted over 150 well logs and more than 50 seismic lines; evaluated farmout proposals; constructed structural maps at five levels, and made three regional cross sections; conducted risk assessments for selected prospects using fault plane solutions and isopach maps; evaluated hydrocarbon potential at deeper levels; and generated five prospects.

Virginia Tech - Completed a Ph.D. program on the evolution of rift basins in the Appalachians. Reconstructing structural and tectonic history of the rift basins using extensive field mapping data, stratigraphy and sedimentary phases analyses, geochemical signature of the rock assemblages, as well as micro- and macro-structural analyses. Mapped eight 7.5 minute quadrangles, measured over 10 km of cross sections, collected and examined over 3,500 rock samples (1200 thin sections examined and near 200 samples were analyzed for chemical composition). Three of four major sections from the thesis were published.

Virginia Tech - Taught at Summer Geology Field Camp for 3 summers. Teaching principals of field geology. Understanding the evolution of Paleozoic sedimentary basins (carbonates and then clastic rocks) in the Appalachians of southern Virginia was the main purpose of the field course. Field teaching started with recognizing basic rock types and structures, measuring cross sections, construct stratigraphic columns, mapping out regional structures, reconstructing the geologic history of the sedimentary basin by linking everything together.

NE University of Geology, China - Finished a B.S. thesis program on neotectonic history of the Yi-Tong Basin in NE China. Being part of the larger scaled Song-Liao Basin where many of the largest oil fields in China were discovered, the Yi-Tong Basin is a late Mesozoic - Cenozoic rift basin characterized by thick sediments and mafic volcanics. In order to reconstruct the geologic history of the Yi-Tong Basin, a detailed surface geologic map was generated and a drainage basin survey (the number and height of the stream terraces, changes of groundwater levels, the

gradients of stream channels etc.) was conducted. Also completed are the studies of exposed fault scarps, origin and composition of the sediments and volcanics, as well as the probability of long-term earthquake assessments. It was concluded that the Yi-Tong Basin has undergone at least six stages of subsidence since Late Cretaceous and the total subsidence has reached as much as 800 meters. Thesis Title: Geology and Neotectonics of the Yi-Tong Basin, Yi-Tong County, Jilin, NE China.

NE University of Geology, China - Completed a field oriented M.S. program focused on the geologic evolution of the Pan-Xi Rift in Sichuan, SW China. Finished a total of nine months fieldwork. Generated a detailed geologic map in the area, measured three key regional cross sections (more than 15 miles long in total), examined over 300 thin sections and conduct over 30 chemicals analyses. Reconstructed sedimentary environments for the rift basin and proposed a new tectonic model. Both field and lab studies indicated that the Late Precambrian Yanbian Group exposed on the west margin of the Pan-Xi Rift was formed during a rifting event within the Yangtze Platform, rather than a collisional event along the rim of the Yangtze Platform as many had believed. The project won the “Excellent Frontier Scientific Research” award from the National Science and Technology Committee in 1986. Thesis Title: Geology and Tectonic Evolution of the Pan-Xi Rift, West Sichuan, China.

NE University of Geology, China - Supervised six undergraduates on their B.S. thesis in the project. Coordinated and designed the budget for the project. Worked closely with geologists and non-geologists from local, provincial and national levels.

NE University of Geology, China - Initiated a geologic research on the evolution of the Mesozoic - Cenozoic basins in NE China. Set up and supervised a M.S. program in the research. The theme of the research was to reconstruct the geologic history of these rift basins by conducting field mapping and recognizing different rock assemblages, as well as lab studies on petrology and geochemistry of the rocks. Completed three months field work in the SE part of the Song-Liao Basin and examined 50 thin sections from the area.

PAPERS AND PRESENTATIONS

Wang, P., 1997. An Overview of gold geology and JV opportunities in China. Southeast Asian Mining Conference (June 23-26, 1997. Vancouver, Canada)

Wang, P., 1996, Exploration and Development Potential of Gold Properties in Six Eastern Provinces of China, presented at SME Annual Conference, (March 11 - 24, 1996, Phoenix, AZ).

Wang, P. and Glover, L., III., 1996, The mafic-ultramafic association in the Virginia Blue Ridge cover rocks: Rifting sequence or ophiolitic melange? *in*: Central and Southern Appalachian Sutures, GSA Special Paper, 1996.

Wang, P. and Glover, L., III., 1994, The Lynchburg Group and the Moneta Formation: A Late Proterozoic Rift Sequence in the Blue Ridge Appalachians of Central Virginia: in Fieldguides to Southern Appalachian structure, stratigraphy, and engineering geology, SE GSA (April 7-9, 1994), p. 16 - 30.

Wang, P. and Glover, L., III, 1992, A tectonics test of the most commonly used geochemical discriminant diagrams and patterns: Earth-Science Reviews, Vol. 33, p. 111-131.

Glover, L., III., **Wang, P.** et. al., 1996, Paleozoic collisions, Mesozoic rifting and structures of the Middle-Atlantic states continental margin: An "EDGE" project report, *in*: Central and Southern Appalachian Sutures, GSA Special Paper, 1996.