



Serving Professionals in Groundwater,
Environmental, and Engineering Geology

Section Meeting

Date: March 21, 2007

Time: 5:30 Social Hour
6:00 Dinner
6:30 Lecture

Cost: \$17.00 per person w/dinner
\$12.00 student w/dinner

Location: UMKC
Room 117, Administration Building
5100 Rockhill Road
Kansas City, MO
<http://www.umkc.edu/maps/>

Topic: What Makes a Good Limestone for Concrete Pavement?

Speaker: Barbara J. Smith; Research Geologist, Kansas Department of Transportation

Eligible for 1.0 Professional Development Hour (PDH) for attending.

For reservations, please call Bruce Wilkinson at 913-217-6910 or email at bwilkinson@HaleyAldrich.com .

Deadline is March 16, 2007.

Barbara J. Smith

Barbara J. Smith attained her undergraduate and graduate degrees in Geology from Kansas State University. In 1980 she joined the Kansas Dept of Transportation as a field geologist and performed most of the field studies for foundations of I-670 in Kansas City. In 1981 she moved into the Research Geology Section, and in 1988 became the Research Geologist. Some of the instruments she has used for routine soil, rock and concrete investigations are SEM, XRD, and XRF, along with some uncommonly utilized things as 35mm SLR as an instrument. Some of the investigations she has been involved in include epoxy injection of hollow planes in bridge decks, development of a new test for fine aggregate for use in asphalt pavement, stability (or instability) of the arch bridge near Seneca, bridge deck sealer evaluations, and concrete petrography questions. She has numerous publications and presentations including those in Transportation Research Board and AEG. Her current work goal is to utilize XRF and XRD data of a presented limestone aggregate to predict its outcome as good rock for concrete pavement.

What Makes a Good Limestone for Concrete Pavement?

Chances are you seldom think about the highway pavement as you drive Kansas highways. Kansas has one of the top highway systems in the nation. It has not always been that way. While Kansas led the way in identifying pavement problems and eliminated them by practical application of research, the concrete pavements in Kansas still had short lives in the 1970s. I will present some of the history of research for concrete and invite you to review with me some of my current findings about what makes a good rock for concrete pavements using Kansas limestone.

Barbara Smith
Research Geologist
Kansas Dept of Transportation