

Specifications in the U.S., Europe, and elsewhere in the world are increasingly dependent upon basic principles of rheology and the application of advanced computer techniques. An understanding of these basic principles is essential for those developing and applying specifications as well as developers and producers of new and enhanced binders, and researchers in academia and industry. The purpose of these workshops is to introduce the basic principles of rheology as they apply to asphalt binders, to introduce measurement principles and analytical concepts, and to provide a hands-on experience in the laboratory that is closely integrated with the classroom work.

This highly interactive workshop is intended for engineers and scientists experienced with asphalt binders but seeking fundamental knowledge that is not available elsewhere. Workshop registration is limited to no more than 20 participants per session.

Further details are available via e-mail:

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| Professor Gordon Airey | gordon.airey@nottingham.ac.uk |
| Dr. Geoff Rowe | growe@abatech.com |
| Dr. David Anderson | da.sc@comcast.net |

The principal instructors for the workshop are Drs. David A. Anderson and Geoff Rowe. Dr. Anderson, formally principal investigator for the Strategic Highway Research Program - project on Asphalt Binder Physical Tests, has a long history of working with many aspects of asphalt binders. Dr. Rowe, president of Abatech, has a wide range of experience and has been responsible for the development of a suite of software programs for rheological analysis of asphaltic materials.

The workshops are held at leading laboratories around the world, employing technicians and guest lecturers from these laboratories.

Course content

- Introduction to rheology / basic principles
- Rheology of asphalt binders and physical testing
- Tour of facilities
- Hands-on laboratory sessions
- Handling of binders in laboratory
- Analysis and interpretation of laboratory data
- Errors in rheological measurements
- Use of rheological data in specifications in US, Europe, and rest of world
- Rheology and relationship to performance
- Current research activities
- Future directions and needs

Registration information

September 5th-9th, 2011 to be held at the Nottingham Transportation Engineering Centre

Pavement Research Building
University of Nottingham
University Park
Nottingham, NG7 2RD
United Kingdom

Hotel Information and registration
forms for the course can be obtained
by emailing:
Mrs. Lesley Gray
lesley.gray@nottingham.ac.uk

Cost - Each participant: £1350