

NMR Logging Technology 4 Day Course & Computing Lab

Aberdeen, March 26 to 29, 2012

Houston, Feb 20 to 23, 2012

Course Overview: This is a comprehensive summary of NMR Logging including basic physics, signal processing, practical considerations and tool selection, job design, data processing, interpretation, quality control and log/core integration. Emphasis is on practical application and building of interpretation skills with dozens of real-world examples. Day four will be a computing lab to include processing of NMR data sets using Logic software.

This course will provide an understanding of:

- NMR physics
- T1, T2 and diffusion, T2 interpretation, pore size and fluid effects
- Signal processing, inversion, averaging, signal to noise
- NMR porosity, bound fluid models, permeability models
- NMR log integration with resistivity based analysis
- NMR fluid identification methods
- Practical considerations of NMR logging including environmental effects
- Commercial tools and appropriate uses of each including CMR-200, CMR+, MRX, MRIL B & C, MRIL Prime, MRIL-XL, MREX, MRX, Sperry, Baker, Anadrill LWD tools, MRILab
- Quality control of NMR logs
- NMR shale applications
- Log – core integration
- Job planning and design, parameter selection

Computing lab will include:

- Loading, averaging, inversion of echo data
- Effect of various bound fluid and permeability models
- Resistivity based analysis methods, NMR fluid identification methods

Partial Client List

These schools have been attended by Halliburton, Schlumberger, Baker Atlas, Computalog/Weatherford, BP-Amoco, Exxon-Mobil, Chevron-Texaco, Pemex, Maersk, Paradigm, INA, Sonangol, Lasmo, Core Labs, PTS Labs, Burlington, Oxy, Anadarko, UP Resources, EIPaso Energy, Devon, Kerr-McGee, Marathon, Enterprise, AGIP, Swift Energy, Cobb and Associates, Ryder-Scott, Mobil, Husky, Mitchell Energy, Talisman, RWE, and others. An abbreviated version has been given as an SPE Technology Transfer Course.

About the instructor:

With 30 years of oil and gas industry experience, Brian Stambaugh is currently President of NMR Petrophysics, Inc. After nine years with Schlumberger, he joined Numar Corporation in 1990. While at Numar, Brian assisted with development of new computational techniques for NMR, and assisted with marketing and engineering efforts as borehole NMR technology emerged. He served as a consultant to Computalog, Atlas Wireline, and Halliburton, and provided interpretation and technical support during overseas assignments. Brian has performed or supervised the processing of NMR data sets from over 1500 wells, has delivered more than 50 short courses on NMR and bypassed/unconventional resources to over 900 participants, and has published articles and technical papers on the subject of NMR logging. He has served as an SPWLA Distinguished Lecturer and SPE Technology Update Speaker. Brian holds a B.S.M.E. from South Dakota School of Mines and Technology.

Tuition: \$4,875 for Aberdeen course, \$4475 for Houston course

Registration: email info@nmrpetrophysics.com

Comments from previous students:

"I have attended this seminar and found it to be a thorough examination of NMR by a very knowledgeable analyst. Excellent". –Petrophysicist with 30 years experience

"Your balanced approach was most refreshing. The manual will be quite useful as an ongoing reference guide." -Petrophysicist

"This was a very good course that I would highly recommend to others. The manual was excellent and it will be a valued reference book." - Engineer