



Italian Section

10 Giugno, 2004

SALA CONFERENZE
5° Palazzo Uffici - ENI divisione E&P
Via Emilia, 1
S. DONATO MILANESE

Ore 15:45 Lecture

CHALLENGES IN WELL LOGGING, 80 YEARS AFTER PECHELBRON 7

➤ **ABSTRACT** About 80 years ago, in late summer of 1927, Conrad and Marcel Schlumberger successfully run the first log in well Pechelbron 7, opening up a new and strategic activity in the oil industry based on the ability of obtaining a wide number of information from measurement taken down hole. Since the first log, the industry has seen a dramatic evolution of the technology in all the components of the well logging process, namely in planning, acquisition, Quality Control, processing, interpretation and distribution of the information. Today applications of well logging measurements, consisting in the open hole and/or through casing in-situ evaluation of a wide range of physical properties of the geological formation intersected by a well, are numerous: Formation Evaluation, Petrophysics, Geology, Reservoir Characterization, Geomechanics, etc. It seems, therefore, timely to evaluate the status of the technique, together with present challenges in the correct use of the information gathered in the different parts of the process and, eventually, turn our attention to the future. The general opinion of the well logging experts belonging to Oil Companies is that new tools and new processing technologies may gather an overwhelming amount of data with respect to what present commercial interpretation systems, professional competence of the people involved in the interpretation and handling of these data, can keep up with. The speech will cover the role of well logging technology within the Oil E&P process, the pivotal role of Petrophysics (largely based on the use of well logging data), type/magnitude of constraints, issues related to recent main technology advancements and possible solutions toward the goal of effective and efficient use of the state of the art well logging technology.

➤ **BIOGRAPHY** Mauro Gonfalini has been the Senior Professional Formation Evaluation of Eni E&P since December 2003. In the last few years, he was the reference person for the development of the R&D Technology Plan in the area of Petrophysics and Well Logging and technical leader of several R&D projects. Mauro has also been deeply involved with the organization and delivery of educational programs in Petrophysical Interpretation of well logs, both in internal courses and with Academia. Mauro is author or co-author of more than 20 technical papers in the area of well log interpretation. As active member of the Society of Petrophysicist and Well Log Analysts (SPWLA) he received in 1999 a Technical Achievement Award and served the Society as Distinguished Speaker. As an active member of SPE, Mauro served for several years in the Board of the Italian Section as Program Chairman, as Committee Member of several SPE worldwide events, Chairman of the SPE Well Logging Committee (ACTE 2000), Chairman of a Forum on Fractured Reservoirs (Europe Series, 2000) and an ATW on Management of Petrophysical Uncertainties in Petrophysical (Europe Series, 2001).

Ore 17:00

ELEZIONI DEL BOARD OF DIRECTORS ANNO SOCIALE 2004 - 2005

Ore 19:00

CENA SOCIALE

E' A DISPOSIZIONE UN BUS CHE CI PRELEVERA' DAVANTI AL 5° PALAZZO ALLE ORE 19:00
(AVREMO CIRCA 45 MINUTI DI TRAGITTO).

L'INIZIO DELLA CENA È FISSATO CON L'APERITIVO ALLE 20:00 / 20:15 ,

IL TERMINE DELLA CENA È FISSATO PER LE 23:00 / 23:30 - IL BUS CI RIPORTERÀ PRESSO ENI .

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