

Contributors

John Anderson is senior staff engineer in the Canadian Gas Business Unit of Nexen Canada Ltd. in Calgary, Alberta, where he has worked since 1995. He has supervised drilling, completion and production operations, including gas-storage operations. In more than 23 years as a drilling and operations engineer, John has worked for several operating companies and consultancies in Canada. He earned a Diploma of Engineering Studies at Dalhousie University, Halifax, Nova Scotia, Canada, and a BE degree from Nova Scotia Technical College, also in Halifax.

Paul Basinski joined El Paso Production in Houston, Texas, USA, as principal geologist, Coalbed Methane (CBM) Division, in 2000 and is currently involved with unconventional gas new ventures. Prior to El Paso, he worked in international exploration and US exploration and development as geological adviser for Burlington Resources in Houston and in Farmington, New Mexico, USA, where he was involved with various CBM projects. As a geologist for several independents and a major company, he made commercial discoveries in the Rocky Mountains, Michigan (USA), the Gulf Coast and Permian Basins. Paul received a BA degree in geology from the State University of New York, Buffalo, USA, and an MS degree in geology from the Mackay School Mines, University of Nevada, Reno, USA.

Andrew Beaton is a coal and coalbed methane (CBM) specialist with the Alberta Geological Survey, Alberta Energy and Utilities Board in Edmonton, Canada. There he focuses on evaluating the coalbed methane resources of Alberta and geological factors controlling CBM production potential. Previously, he worked at Smoky River Coal Company, Grande Cache, Alberta, on coal quality and mining geology issues. He has also served as consultant in the fields of coal chemistry, coal petrology, coal quality, coal and coalbed methane exploration, and isotope geology. He holds a BS degree in geology from Saint-Francis Xavier University, Antigonish, Nova Scotia, Canada, and an MS degree in coal science from the University of Regina, Saskatchewan, Canada. Andrew has published several papers on Canada's coal chemistry, petrography and CBM resources.

Soraya Betancourt is a research engineer with the Sampling and Analysis group at Schlumberger-Doll Research in Ridgefield, Connecticut, USA. She joined Schlumberger in 2000 as a reservoir engineer at the Schlumberger Reservoir Completions Center, Rosharon, Texas. Soraya previously was employed by Petróleos de Venezuela SA (PDVSA) Oil & Gas in Venezuela as a production technologist. She has a BS degree from Universidad del Zulia in Venezuela and an MS degree from the University of Tulsa, Oklahoma, USA, both in petroleum engineering.

Charles Boyer, who is based in Pittsburgh, Pennsylvania, USA, is principal consultant specializing in unconventional gas reservoirs for Schlumberger Data & Consulting Services. Before joining Schlumberger in 1998, he was manager of methane control research at U.S. Steel, which included the first commercial CBM production field in the world. He also founded or managed several exploration and consulting firms. Charles has authored or coauthored more than 70 papers and has made more than 50 technical presentations about coalbed methane at conferences worldwide. He received a BS degree in geological sciences from Pennsylvania State University in University Park and completed graduate studies in mining and petroleum engineering at the University of Pittsburgh and Pennsylvania State University. He was named a Centennial Fellow at Pennsylvania State University (1996), received the Distinguished Service Award from the Potential Gas Agency (1995), and has served on the organizing committees of numerous domestic and international CBM symposia and conferences.

Claudio Brufatto, Engineering Coordinator for Petrobras Bolivia in Santa Cruz, Bolivia, is responsible for well construction projects, including special operations like cementing operations. He joined Petrobras in 1987. Claudio earned a BS degree in civil engineering from the Federal University of Rio Grande do Sul in Porto Alegre, Brazil, and a certification in petroleum engineering from the Petrobras Personal Development Center in Bahia, Brazil.

Daren Bulat has been Canadian technical manager for Schlumberger Well Services, Calgary, Alberta, since 1996. He provides sales and operations technical support and champions the introduction of new technologies. Daren joined Schlumberger in 1993 as a cementing engineer. Before that, he worked for Canadian Fracmaster Ltd., Red Deer, Alberta, in various field operations for cementing and stimulation of oil and gas wells. Daren has a BS degree in chemical engineering from the University of Calgary.

Andrew Carnegie is Schlumberger principal reservoir engineer for the United Arab Emirates, Qatar, Yemen and Oman region. Since joining Schlumberger in 1989, he has worked for both Wireline & Testing and GeoQuest in several subdisciplines of petroleum engineering and reservoir characterization, with assignments in the Far East, Middle East and Australia. Before joining Schlumberger, he worked for Cap Scientific as a mathematician specializing in torpedo and submarine hull design and for Intera as a reservoir engineer. Author of many papers, Andrew earned a BS degree (Hons) in applied mathematics and a PhD degree in mathematical physics, both from Queen Mary College, University of London, England.

Jamie Cochran is a senior staff engineer in cementing engineering for Schlumberger in Aberdeen, Scotland. In his previous position as cementing technical engineer, he worked on projects throughout the North Sea and Irish Sea that involved slimhole well construction and completion, gas-migration challenges and advanced cementing technology. Jamie obtained an MS degree in mechanical engineering at the University of Birmingham, England, in 2000.

Leif Colson, who is based in Denver, Colorado, USA, works for Schlumberger on multiwell petrophysical evaluations leading to reservoir simulation and on individual well evaluations in the Rocky Mountain region. From 1982 to 1985, he was an applications development engineer in Anchorage, Alaska, USA. He also served as project manager for nuclear tool development at Schlumberger Well Services Houston Engineering. Before taking his current post, he specialized in the interpretation of log data and investigation of new tool responses to more efficiently evaluate oil and gas reservoirs. Leif has a BS degree in engineering physics from the Colorado School of Mines in Golden.

Lee Conn, Global Technical Service Engineering Manager for M-I L.L.C. in Houston, Texas, has provided global field engineering support since 1999. His previous positions included working as a field engineer in south Texas and south Louisiana (USA); technical service engineer in Houston; technical service engineer in Aberdeen, Scotland; and technical services manager in Stavanger, Norway. Lee holds a BS degree in mechanical engineering from Texas A&M University in College Station.

Chengli Dong is a senior reservoir engineer for Schlumberger in Sugar Land, Texas, where he works on formation testing and sampling, especially development of MDT* Modular Formation Dynamics Tester, OFA* Optical Fluid Analyzer, LFA* Live Fluid Analyzer for MDT tool and CFA* Composition Fluid Analyzer interpretation algorithms. Chengli obtained MS and PhD degrees in petroleum engineering from The University of Texas at Austin. An author of many technical papers, Chengli also earned recognition in the Performed by Schlumberger program in 2001 and 2003.

George Dozier is Schlumberger project manager for the Kerr-McGee Joint Value Enhancement Agreement. He joined Holditch-Reservoir Technologies, now part of Schlumberger Data & Consulting Services, in 2000, as a senior production engineer involved in hydraulic fracturing and production optimization. As operations manager for Schlumberger in Hobbs and Artesia, New Mexico, he was responsible for customer support, field operations, technology transfer, finance, cost control, personnel management, marketing, and quality, health, safety and environment. Other assignments included field service manager in Michigan; DESC* design and evaluation services for clients engineer for Chevron California in Bakersfield, USA; and project coordinator for fracturing and perforating operations in Lost Hills, California. George earned a BS degree in mechanical engineering from the University of Wyoming, Laramie, USA.

Jack Elbel retired from Schlumberger in 1997. He began his career in 1954 and had various engineering assignments in field locations and at technical centers in the USA, Middle East and Europe. He specialized in the design and evaluation of hydraulic fracturing treatments. Jack attended The University of Texas and William Marsh Rice University in Houston.

Said Zaki Abd Alla El-Zeghaty, Cement Engineering Section Leader for Abu Dhabi Marine Operating Company (ADMA-OPCO) in Abu Dhabi, UAE, manages cementing and stimulation operations. Prior to that, he was lead engineer for ADMA-OPCO cement, dry tests and stimulation operations. He also worked for Zakum Development Company in Abu Dhabi as senior cement supervisor, and for Dowell Schlumberger and Halliburton in the UAE, USA and Egypt in service, sales and engineering roles. An author and coauthor of several published papers and numerous cement, stimulation and nitrogen manuals, he is an active member of the Society of Petroleum Engineers (SPE) and the American Petroleum Institute (API) with more than 35 years of contributions to the industry. Said holds a BS degree in petroleum engineering from Suez Canal University in Ismailia, Egypt.

Kåre Otto Eriksen, Well Data Acquisition Specialist for Statoil ASA in Stavanger, Norway, is responsible for implementing new logging technology and is involved in well-data acquisition and formation-evaluation support. As petroleum engineer for Statoil Exploration Norway, he was involved in logging and well-testing operations, petrophysics, reservoir evaluation, field development and pore-pressure interpretation, particularly for high-pressure, high-temperature wells. As technical advisor for well-logging operations for Statoil Exploration & Production Norway, he oversaw logging operations, new logging technology and pore-pressure rock-mechanics support. Kåre Otto earned an MS degree in petroleum engineering at Rogaland University Centre in Stavanger.

Eugene Fielder is operations engineering supervisor for Devon Energy in Oklahoma City, Oklahoma, where he focuses on the Fort Worth basin. Before joining Devon in 2001, he was reservoir engineering supervisor for Mitchell Energy in The Woodlands, Texas, also involved in Fort Worth basin operations. Other assignments for Mitchell involved operations in East Texas and the Gulf coast. He has also worked for Amoco Production in Tyler, Texas, where he served as production engineer for East Texas. Eugene received a BS degree in petroleum engineering from Texas A&M University in College Station.

Bernard Fraboulet, Cementing Advisor for Total Exploration & Production in Pau, France, is involved in cementing research and development. He was hired by Elf in 1998 as laboratory manager in Pau, where he worked with drilling, cementing, stimulation and treatment fluids and geomechanics. Prior to that, he spent 26 years with Dowell Schlumberger, which included assignments in Algeria, Angola, Cameroon, Italy and France. Bernard is a graduate of the Institut National des Sciences Appliquées in Lyon, France, where he studied material sciences.

Go Fujisawa, who is a senior research engineer at Schlumberger-Doll Research in Ridgefield, Connecticut, has worked on downhole fluid analysis for the last three years. Go joined Schlumberger SKK in Fuchinobe, Kanagawa, Japan, in 1999, and worked there as a product development engineer in the pressure-sensor product line. He received BS and MS degrees in applied physics from Osaka University in Japan.

Tom Griffin, of Griffin Cement Consulting LLC, provides consulting in oil- and gas-well cementing services to operators, service companies and suppliers. He has 33 years of experience in well services, including 28 years in gas and oilwell cementing. Before forming his own company, he spent 28 years in research and technical support on acidizing, sand control, fracturing and cementing for Schlumberger. He has written numerous publications on sand control and cementing and holds many patents on acidizing, fracturing and cementing. He also served 12 years on the API Standardization Subcommittee on Cementing. Tom earned a BS degree in chemistry at Wake Forest University in Winston-Salem, North Carolina, USA.

Mostafa Haggag, Senior Petrophysicist for Abu Dhabi Company for Onshore Oil Operations (ADCO), works in Abu Dhabi, UAE, on the company's Sahil asset.

Stephen A. Holditch is a Schlumberger Fellow and the company's theme manager for natural gas and heavy oil, as well as a production and reservoir engineering advisor. In 1977, he formed S.A. Holditch & Associates, Inc., which was acquired by Schlumberger in 1997. After holding several positions with the SPE, he became SPE President in 2002. The SPE has honored him with the John Franklin Carl Award and the 1994 Lester C. Uren award in recognition of distinguished achievement in petroleum engineering technology made by a member before reaching age 45. He also received the ASME Rhodes Industry Leadership Award. Stephen was elected to the National Academy of Engineering, the Russian Academy of Natural Sciences and the Petroleum Engineering Academy of Distinguished Graduates at Texas A&M University in College Station, where he is currently a Professor Emeritus of petroleum engineering. Author of more than 100 technical articles, Stephen received his PhD degree in petroleum engineering from Texas A&M University.

René Hoover is senior sales engineer for Schlumberger Well Services in Fort Worth, Texas. Since joining Dowell, now part of Schlumberger, in 1976, he has worked in cementing, acidizing and fracturing in Arkansas (USA), Oklahoma and Texas in various assignments from equipment operator to district manager. An active member of the SPE, René has coauthored several papers. He has also served on several SPE committees and was chairman of the Fort Worth section of SPE. René earned a BBA degree in marketing from Central State University (now the University of Central Oklahoma) in Edmond.

Simon James is a project manager in the cement chemistry department of the Schlumberger Riboud Product Center in Clamart, France, where he addresses challenges in gas well cementing and sustained casing pressure. In previous assignments in Sugar Land, Texas, and St. Austell, England, he worked on fracturing materials, screenless completions and drilling-fluids research. Author of many technical papers and holder of several patents, Simon obtained a BS degree in natural sciences and a PhD degree in physics, both from the University of Cambridge, England.

Antonio R. Jaramillo, Operations Coordinator-Sahil Team, is a senior reservoir engineer for ExxonMobil Abu Dhabi Company for Onshore Oil Operations (ADCO) in Abu Dhabi, UAE. Previously, he was a reservoir engineering advisor for Mobil Oil Corporation in Midland, Texas, and Stavanger, Norway. He holds BS and MS degrees in petroleum engineering from The University of Texas at Austin.

Zachariah John is operations manager for Schlumberger Data & Consulting Services in Perth, Western Australia. He joined Schlumberger as a wireline engineer and worked as a field engineer in Jakarta, Indonesia, and in China. Other assignments were in Kuwait, India, Vietnam, Indonesia and Iran. He introduced new logging tools and coordinated coalbed methane-related log interpretation in India. To further his interest in interpretation, he attended the Schlumberger Advanced Interpretation School in Houston, Texas. Since then, his projects have involved fluid substitution, coalbed methane, nuclear magnetic resonance interpretation, mechanical properties logs for fracturing, log analysis, advanced processing and interpretation of logging-while-drilling logs and InterACT® real-time monitoring and data delivery. Zachariah holds a BS degree in mechanical engineering from the Indian Institute of Technology, New Delhi, India. An author of several SPE papers, he also serves as the secretary of FESWA, the local chapter of the SPWLA in Perth.

Frederico Justus, Operations Manager for Schlumberger Well Services and Well Completions & Productivity, is based in Santa Cruz, Bolivia. He joined Schlumberger in 1998 as a cementing field engineer in Macaé, Brazil. He became engineer in charge for the Shell Drilling Project in Macaé, and then was transferred to Bolivia in 2002 as technical engineer for Well Services. Frederico earned a BS degree in industrial and mechanical engineering from the Centro Federal de Educação Tecnológica do Paraná in Curitiba, Brazil.

Riaz Khan is a senior log analyst for Schlumberger Data & Consulting Services in Houston, Texas. He is currently assigned to El Paso Production and provides log interpretation and exploration and development field studies. In previous assignments as project leader, petrophysicist, computer operator and wireline operator, Riaz worked in Qatar, Saudi Arabia and India. He obtained a BS degree in physics and mathematics from Bombay University in India.

Andrew Kurkjian, Manager of MDT fluid analysis for Schlumberger in Sugar Land, Texas, is involved in testing and evaluation of measurements and development of answer products. In 1982, he joined Schlumberger-Doll Research in Ridgefield, Connecticut, as a research scientist. There he was principal inventor of the DSI* Dipole Shear Sonic Imager tool. From 1988 to 1990, he was engineering manager for crosswell seismic development at Schlumberger Riboud Product Center in Clamart, France. He then moved to Schlumberger Cambridge Research in England, where he headed borehole seismic research. Since 1993, he has been involved with the MDT tool as principal authority on fluid sampling and is also a coinventor of the CHDT* Cased Hole Dynamics Tester tool. Andrew received a BS degree in electrical engineering from Catholic University in Washington, DC, USA, and MS and PhD degrees, also in electrical engineering, from Massachusetts Institute of Technology in Cambridge, USA.

Stephen Lemp, who is coiled tubing services technical manager for Schlumberger Canada, Ltd., in Calgary, Alberta, provides technical assistance for sales and operations and is involved in marketing new technologies for coiled tubing and for the various stimulation and cementing-fluid technologies. In more than 23 years with Schlumberger, his assignments have ranged from field engineer to technical manager in Canada, Venezuela and the USA. He earned a BS degree in chemical engineering from Michigan Technological University in Houghton. Author of several technical publications, Stephen was recognized as a Platinum Award winner in the Performed by Schlumberger program and was awarded a US patent for his work on the CoilFRAC* stimulation through coiled tubing project.

Joseph R. Levine, Chief of the Operations Analysis Branch with the US Department of Interior, Minerals Management Service (MMS), is based in Herndon, Virginia, USA. His responsibilities include overseeing the development and implementation of MMS's standardization program, offshore training program, preparation of technical publications, the analysis of Outer Continental Shelf (OCS) incident data, OCS pipeline-related activities and other safety-related issues. He has onshore oilfield experience in drilling operations and has worked with the MMS in its Alaska, Pacific and Gulf of Mexico regional offices. Joseph received a petroleum engineering degree from the University of Wyoming in Laramie.

Nick Low is Schlumberger InTouch engineer for Well Construction Services (WCS), based in the Schlumberger Riboud Product Center in Clamart, France. Previously, he was US Land GeoMarket* marketing and technical engineer for WCS in Denver, Colorado. He has also worked as account manager for Santos in Adelaide, South Australia, and as WCS field service manager for various oil companies in Aberdeen, Scotland, where he also was a DESC engineer. As a development engineer in fluids chemistry and process engineering, he worked in Saint-Étienne and Clamart, France. Nick joined Schlumberger in 1988 as a field engineer in Australia, Brunei and Malaysia. He earned a BS degree (Hons) in chemical engineering from the University of Adelaide in Australia.

Carl Montgomery, Research Fellow for ConocoPhillips in Bartlesville, Oklahoma, has been responsible for technical innovation and training in the company's worldwide stimulation and completion operations since 2000. His current emphasis is on developing software for designing hydraulic fracturing, acid fracturing and matrix treatments, developing cavity-type completion techniques, developing stimulation programs for the Eldfisk-Ekofisk-Embla fields in Norway, Bohai Bay field in China and Britannia field in the UK, and developing new stimulation training for ConocoPhillips. He previously worked for ARCO and Dowell Schlumberger. The author of many papers on stimulation, he has been session chairman at several SPE conferences, editor of *SPE Production & Facilities* and chairman of the SPE Distinguished Lecturer Committee. Carl has degrees in biochemistry, a BS from Colorado State University in Fort Collins, and an MS from Ball State University, Muncie, Indiana, USA, and he also attended the Colorado School of Mines in Golden.

Oliver C. Mullins received a BS degree in biology from Beloit College in Wisconsin, USA, and MS and PhD degrees in chemistry from Carnegie-Mellon University, Pittsburgh, Pennsylvania. He held research positions in chemistry at the University of Chicago, Illinois, USA, and in physics at the University of Virginia, Charlottesville. He has been at Schlumberger-Doll Research since 1986, and has worked on or led the research effort for several commercial services, including the OFA, LFA and CFA systems. Oliver is currently a scientific advisor and program manager for Downhole Fluid Analysis. He has coedited two books on asphaltenes, published 50 articles in refereed journals and 11 in oilfield journals, and has coauthored 19 US patents, with 12 more applications filed.

Trevor Munk, New Technology Implementation Manager for Cementing, is based at Schlumberger Riboud Product Center in Clamart, France. There he manages the deployment of technologies to the field and provides internal and client training and support. He began his career in 1985 as a process technician with Petro-Canada. He held various engineering and project-management positions with Canadian Western Natural Gas, Home Oil and the Canadian Institute for Petroleum Industry Development. He served as business development engineer for Imperial Oil before joining Schlumberger in 1998 as Well Services cell leader in Gabon, becoming engineer-in-charge in Equatorial Guinea and then in southern Africa. Before taking his current post, he was sand-control business development manager in West and South Africa. Trevor holds an honors diploma in petroleum engineering technology from the Northern Alberta Institute of Technology in Canada, and a BS degree in petroleum engineering and an MS degree in engineering management from the University of Alberta.

Dominic Murphy is a drilling engineer for BHP Billiton in London, England, where he is responsible for all aspects of well design and operations for the upcoming Liverpool Bay drilling campaign. Prior to joining BHP in 2002, he worked for Shell, KCA Drilling and for several service companies. Dominic obtained a BS degree (Hons) in geology from the University of Durham, England, and an MS degree in drilling engineering from Robert Gordon University in Aberdeen, Scotland.

Tom Olsen, Schlumberger US Land Coalbed Methane Business Development Manager, is based in Denver, Colorado. He has been with Schlumberger since joining Dowell in 1980. His first assignments involving wellbore stimulation, production enhancement and project engineering took him to postings in the North Sea, the former Soviet Union (CIS), Canada, and, in the USA, Alaska, Texas, Oklahoma and Colorado. He then served as technical manager of production enhancement for Europe and the CIS. After serving as Dowell well production services manager for Europe and the CIS, he moved to Sugar Land, Texas, as marketing manager for the Well Services Product Center. Before taking his current assignment, he managed the Schlumberger Consulting Services Group. Tom received a BS degree in geology from the University of Connecticut in Storrs.

Jochen Pfeiffer, who is based in Houston, Texas, is involved in cementing operations in the Gulf of Mexico. He joined Dowell Schlumberger after earning a degree in geology at Ludwig-Maximilians University in Munich, Germany, in 1981. His early assignments were as cementing specialist in Turkey and Libya, offshore manager of cementing in Libya, manager of a stimulation vessel in Italy, and station manager in Libya and then Norway. From 1993 to 1997, he managed coiled tubing and stimulation activities in Germany and then became district manager there. From 1997 to 1999, he was Schlumberger Well Services marketing manager for central and eastern Europe. Prior to taking his current position, Jochen was project manager, Well Services marketing at the Schlumberger Riboud Product Center in Clamart, France.

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David Power is deepwater technical advisor for M-I L.L.C. in Houston, Texas, where he is responsible for global deepwater technical support. Previously, he developed drilling and drilling-fluid technology as a senior technical professional for Halliburton Energy Services. David obtained BS and PhD degrees in chemical engineering from the University of Melbourne, Victoria, Australia.

Satyaki Ray, Senior Geologist for Schlumberger Data & Consulting Services (DCS) in Calgary, Alberta, specializes in borehole image processing, interpretation and field testing, and has interpretation experience in dipole sonic technology. He is also leader of the Coalbed Methane Geology team, working to develop products and solutions for clients in Canada. He began his career in 1989 as a wellsite geologist and core analyst for Oil & Natural Gas Corporation Ltd. (ONGC), India, and subsequently worked in its reservoir-modeling group. He joined Schlumberger in 1997 as an interpretation development geologist in Bombay, India. From 1999 to 2002, he was Schlumberger DCS coordinator for onshore and eastern India. Satyaki holds an MS degree in applied geology from the Indian Institute of Technology in Roorkee, India, and an MS degree in geo-exploration from the Indian Institute of Technology in Bombay.

Scott Reeves is a founder, the executive vice president and a director of Advanced Resources International in Houston, Texas, which specializes in emerging resources, technologies and issues for the oil and gas industry. He oversees the company's operations in the western USA, manages the firm's reservoir engineering practice, and is responsible for strategic planning and marketing. He has had more than 18 years of industry experience, including operations, engineering and research, for Taurus Exploration, Inc. (now Energen Resources), TRW Exploration and Production, and the Texas Petroleum Research Committee. Scott was an SPE Distinguished Lecturer on enhanced coalbed methane technology. He was appointed by the US Environmental Protection Agency as special advisor to Russia on coalbed methane technology in 2000, appointed by the US Agency for International Development as special advisor to the Ukraine on coalbed methane technology in 1998 and 1999, and appointed by the United Nations as special advisor to China on coalbed methane and field enhancement technology from 1992 to 1996. Scott earned a BS degree in petroleum engineering from Texas A&M University in College Station, and an MBA degree from the Fuqua School of Business, Duke University, Durham, North Carolina.

Don Reinheimer is a senior log analyst for Schlumberger Data & Consulting Services in Calgary, Alberta, where his interests include petrophysics, corrosion, rock mechanics and wireline formation testing. He began his career with Schlumberger as a wireline field engineer in 1975. Don's field assignments were primarily in Canadian land, offshore and arctic locations. He has a BS degree in electrical engineering from the University of British Columbia, Vancouver, Canada.

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Barry Ryan is a coal and coalbed methane specialist with the Oil and Gas Emerging Opportunities and Geosciences Branch of the Ministry of Energy and Mines, Victoria, British Columbia, Canada, where he has worked for 14 years. He is responsible for technical aspects of coal geology and coalbed methane geology in the province. Previously, Barry was employed by Crowsnest Resources, a subsidiary of Shell Canada that pursued coal exploration and development in western Canada. He also worked at the Line Creek coal mine in southeast British Columbia. Barry has a PhD degree in structural geology and isotope geology from the University of British Columbia in Vancouver and spent time in South Africa as a postdoctoral fellow.

Greg Schlachter joined Schlumberger Data & Consulting Services in Calgary, Alberta, as a senior log analyst in 1997. As the local MDT product champion, he provides MDT interpretation support in addition to production log, cased hole resistivity and petrophysical interpretation. Previously, he was a senior staff engineer specializing in closed chamber drillstem testing interpretation and software development for Delta-P Test Corporation in Calgary. He also worked in production testing and underbalanced drilling data acquisition and interpretation as operations manager for Datalogger Inc., also in Calgary. Greg received a BS degree in mechanical engineering from the University of Alberta in Edmonton.

David Schoderbek is the coalbed methane team leader for Burlington Resources Canada in Calgary, Alberta. He has worked for Burlington Resources and its predecessor, Meridian Oil, in Farmington, New Mexico, and Midland, Texas. His geological and geophysical assignments included both exploration and development in West Texas, the San Juan basin and the Paradox basin. Prior to joining Burlington, David was employed as a geophysicist working in West Texas and the Gulf Coast by Chevron USA and Gulf Oil in Midland and Houston, Texas. David holds a BS degree in geology from the New Mexico Institute of Mining and Technology in Socorro, and an MS degree in geology from the University of Houston.

Eduard Siebrits, Team Leader for the Schlumberger Modeling & Mechanics Group in Sugar Land, Texas, is actively involved in matrix acidizing, reaction and transport in porous media, hydraulic fracturing, sand management, new fluid rheology, friction and leakoff models, proppant transport models, fracture cleanup, soft rock fracturing and tip screenout models. Before joining Schlumberger in 1995, he worked for CSIR Mining Technology and COMRO Rock Engineering in Johannesburg, South Africa. He received BS (Hons) and MS degrees in civil engineering from the University of Cape Town, South Africa, and a PhD degree in geoenvironmental from the University of Minnesota in Minneapolis. Eduard has been on the international advisory board of *FRAGBLAST*, the international quarterly journal for blasting and fragmentation, since its inception in 1997.

Mike Simpson is manager of coalbed methane, Canadian Oil and Gas Division, for Nexen Canada Ltd. in Calgary, Alberta. He has also served as Canadian exploration manager and division manager of strategic planning and reporting for Nexen. He previously worked for Home Oil Co. and B.C. Exploration in supervisory positions in exploration, planning and property consolidation. Mike has a BS degree in geology from McGill University, Montreal, Quebec, Canada, and an MS degree in economics from the University of Calgary. A former president of the Economics Society of Calgary, he is a founding and current director of the Canadian Society for Unconventional Gas.

Harry Terabayashi, Downhole Fluid Analysis Project Manager at Schlumberger SKK, Fuchinobe, Kanagawa, Japan, oversees project management and continued development of the OFA, LFA and CFA modules for the MDT tool. Since joining the company in 1988, he has worked on development of the OFA, LFA and CFA modules and other projects involving downhole fluid analysis. He earned a BS degree in applied physics at Tokyo University of Agriculture and Technology in Japan. Harry was recognized for his contributions to downhole fluid analysis in 2000, 2001 and 2003 through the Performed by Schlumberger program.

Del Wisler, Rincon Asset Team Manager for Kerr-McGee Oil & Gas Onshore LLC in Houston, Texas, manages the operations and development activities for the Rincon field in South Texas. He joined Oryx Energy Company, now owned by Kerr-McGee, in 1985, serving as an operations engineer in California, Texas and Louisiana for fourteen years. He became operations manager for West Texas in 1999 and then onshore USA operations engineering manager for three years before assuming his current position. Del holds a BS degree in petroleum engineering from the University of Southern California in Los Angeles.

Steve Wolhart, Senior Staff Engineer for Pinnacle Technologies in Houston, Texas, directs projects combining hydraulic fracture diagnostics, fracture engineering and modeling, and reservoir engineering to optimize hydraulic fracturing and field development. Before joining Pinnacle, Steve worked for the Gas Research Institute (GRI), now the Gas Technology Institute (GTI), leading projects on tight-gas sands development and hydraulic fracturing. He also worked for Exxon in reservoir and completions engineering. His experience includes field studies to optimize stimulation treatments and field development of tight-gas reservoirs in the USA, Canada and Mexico. He has written or coauthored many SPE papers on hydraulic fracturing, advanced hydraulic fracture diagnostics, restimulation, coiled tubing testing and cementing. Steve was an SPE Distinguished Lecturer from 2001 to 2002 on restimulation through hydraulic fracturing. He earned a BS degree in mechanical engineering at Texas A&M University in College Station, and an MBA degree from Southern Methodist University in Dallas, Texas.

An asterisk (*) is used to denote a mark of Schlumberger.