

## Contributors

**John Algeroy**, Intelligent Completions Business Development Manager for the Advanced Completions group, is based at the Schlumberger Reservoir Completions Center in Rosharon, Texas, USA. There he is responsible for marketing, training and development of equipment in close cooperation with Schlumberger districts. In 1986 he joined Camco in Norway, where he was in charge of the operation's base in Bergen. Three years later, he became district manager in Stavanger, Norway. Prior to his current position, he was Camco UK district manager in Aberdeen, Scotland (1997 to 1999). John has a BS degree in petroleum engineering from Rogaland Regional College in Stavanger.

**François Auzerais**, who is based at the Schlumberger Riboud Product Center (SRPC) in Clamart, France, is the product development manager of the Reservoir Monitoring and Control department. He joined Schlumberger in 1982 as a field engineer with several postings in South America, and later worked at Schlumberger-Doll Research, Ridgefield, Connecticut, USA, as a program manager in the Reservoir Optimization group. François received a PhD degree in chemical engineering from Princeton University, New Jersey, USA.

**Ian Bryant** is program manager of the Reservoir Dynamics and Control program in the Reservoir Optimization department at Schlumberger-Doll Research (SDR), Ridgefield, Connecticut, and has recently managed the field testing of permanent reservoir monitoring devices. He began his career in 1984 with Shell Exploration and Production Laboratory in The Netherlands, as a reservoir geologist researching development of clastic reservoirs, especially locating bypassed oil in producing fields. From 1989 to 1993, he was a production geologist for Shell in New Zealand. Ian holds BS and PhD degrees from University of Reading in England. He chairs the SPE Development Geology and Geophysics committee.

**Mike Crabtree** is water management manager for Schlumberger Oilfield Services Marketing in Aberdeen, Scotland. He began his career with International Drilling Fluids (IDF) first as an engineer and then as development manager in the Middle East and West Africa (1985 to 1989). He also worked for TR Oil Services as Middle East Manager (1989 to 1995). Among his accomplishments is helping to develop low-toxicity oil-base mud and high-performance scale inhibitor and dissolver systems; he was also part of a team that worked on design and implementation of an oil-spill recovery system in Kuwait after the Gulf War. Mike earned a BS degree in chemistry from University of Newcastle in England.

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

**John Davies**, Senior Production Technologist for the BP Amoco Wytch Farm oil field, in Dorset, England, is primarily responsible for development of advanced artificial-lift completions for multipurpose wells and intelligent wells. He has been with BP Exploration for 20 years. During this period, his assignments included various technical, operational and research positions. He has also worked for BP Chemicals and the National Coal Board. He received two BP Amoco international awards for innovative technology in the area of advanced completion design and has written and co-authored many technical papers associated with artificial-lift completion design and performance. John obtained a BS degree in mechanical engineering and energy studies from University College, Cardiff, Wales.

**David Eslinger** is an engineering specialist involved in mechanical design of downhole tools in the Dowell Coiled Tubing Products group in Tulsa, Oklahoma, USA. He joined Dowell in 1990 and spent four years as project leader of XS inflatable anchoring packer development. He has most recently been involved in Blaster Services\* development. Holder of 15 patents, David has a BS degree in mechanical engineering from Oklahoma State University in Stillwater, and an MS degree in mechanical engineering from University of Tulsa.

**Phil Fletcher**, Team Leader for ClearFRAC\* product development, is with Oilfield Chemical Products in Sugar Land, Texas. He manages a team of 10 people who develop viscoelastic surfactant technology for reservoir stimulation. He joined the company in 1985 as a research scientist at Schlumberger Cambridge Research in England. In 1993 he became section head for cementing at the Europe-Africa Technology Center in Aberdeen, Scotland. There he provided field support and oversaw short-term engineering projects. Before taking his current position, he was technical manager with the Water Services Business Development team in Aberdeen, promoting new techniques for water control and scale management (1996 to 1998). A Fellow of the Royal Society of Chemistry, Phil earned a BS degree in chemistry from University of Leicester and a PhD degree in physical chemistry from the University of London, both in England.

**Huawen Gai** is a petroleum engineer who is responsible for well completions, formation damage control and perforating operations for BP Amoco at Wytch Farm, Dorset, England. He joined BP Exploration at Sunbury, England in 1989 as a drilling engineer. From 1994 to 1997, he served as a petroleum engineer, working on several major joint industry projects such as external casing packer technology, intelligent wells and the chemical packer segment of the PL Flagship\* project with BP. Huawen has a BS degree in sensors and control from Beijing University of Aeronautics and Astronautics in China. He has two additional degrees from University of Manchester Institute of Science and Technology in England: an MS degree in control engineering, and a PhD degree in multiphase flow imaging using acoustics.

**Orjan Johannessen** is senior completion engineer for Troll operations with Norsk Hydro ASA in Bergen, Norway. He began work in 1996 as a trainee in the Permian Basin for Phillips Petroleum Company. From 1997 to 1998, he was a completion engineer at the Brage field for Norsk Hydro ASA. He assumed his current post in 1999. Orjan earned an MS degree in petroleum engineering from the Norwegian Institute of Technology in Trondheim.

**Ashley Johnson**, Principal Engineer with the Perforating Fluid Dynamics laboratory in the Perforating Research department, is based at Rosharon, Texas. In 1998 he joined the Fluid Mechanics department at Schlumberger Cambridge Research, England, where he worked on two-phase flows of non-Newtonian fluids and was a key contributor to the SideKick\* well-control simulator. In 1994 he worked on rotary steering in the Interpretation and Geomechanics department. Later that year he took over the fledgling Jet Drilling program and launched the jetting scale-removal project. In 1998 he transferred to the engineering group in Rosharon, Texas, and oversaw the project through commercialization. He is now with the Wireline Perforating laboratory. Ashley has a BA degree (Hons) from University of Cambridge and a PhD degree in fluid mechanics from University of Oxford, both in England.

**George King** has worked on well completions, workover processes and operations applications since joining Amoco in 1971. His background includes basic research on foam stimulation fluids, acids, emulsions, asphaltenes and sand control, as well as work on coiled tubing, perforating, formation damage and general production operations. Based in Houston, Texas, he is involved primarily in well interventions for the BP Amoco organization. His current activities include teaching, field reviews, problem-well analysis, general consulting and activity on the innovation network. His technical accomplishments include several patents, numerous technical papers, a book on completions and workovers, the Chairman's Award for technology from Amoco in 1997, and Distinguished Lecturer for the SPE during 1985-1986, and again in 1999. He has also served as technical chairman of the 1992 SPE Annual Meeting, as chairman of the API subcommittee on perforating (10 years), as an adjunct professor at the University of Tulsa (11 years), and in addition has worked on many forums, paper selection committees and workshops for the SPE. George received a BS degree (chemistry) from Oklahoma State University of Agriculture and Applied Science in Stillwater; and from the University of Tulsa in Oklahoma, a BS degree in chemical engineering and an MS degree in petroleum engineering.

**W. Bruce Lowe**, Business Development Manager for Coastal Management Corporation, is based in Midland, Texas. He started as a drilling engineer with Loffland Brothers Co., a leading drilling contractor, and later worked in Wyoming and Texas (1976 to 1980). In 1980 he joined Westland Oil Development Corp. in Houston, Texas, as a production and reservoir engineer. From 1981 to 1989, he was with Terra Resources Inc. as a production engineer in Houston and then as operations manager in Midland. He formed Lowe Production Co. in 1989. Bruce earned a BS degree in mechanical engineering from Texas A&M University in College Station.

**Odd Malde**, District Manager for Camco Products & Services, is based in Stavanger, Norway. He has been with Camco in Norway since 1982. He started as a sales consultant, and later became sales and contract manager. He assumed his current post in 1997. Odd completed his education at a technical college in Stavanger.

**Matt Miller**, who is based in Sugar Land, Texas, has been Schlumberger matrix services specialist since 1999. He currently performs market research, advises development teams and provides worldwide field support for matrix services projects. He joined Dowell in 1994 as area manager of the Technology Center in Midland, Texas, supervising the training staff and operation of two laboratories and identifying new markets. Three years later, he became Dowell water services manager for North America. Before assuming his current position, he was Dowell product center marketing manager (1998 to 1999). Author of many papers, Matt holds a BS degree in chemical engineering from the University of New Hampshire in Manchester, USA, and MS and PhD degrees in chemical engineering, both from the University of Michigan, Ann Arbor, USA.

**Arthur John (A.J.) Morris** recently retired from Schlumberger to form Morris Consulting. Before this he was vice president, responsible for business development and marketing of intelligent completions for the Schlumberger Advanced Completions group in Rosharon, Texas. He joined Camco in 1967 as a computer and systems engineer. His subsequent assignments included sales engineer, district manager, chief engineer, director of engineering and vice president of engineering and research. He has also worked for Calvert Exploration Company (1965 to 1967) and Pan American Petroleum (1962 to 1965). An active member of the American Society of Mechanical Engineers and the Society of Petroleum Engineers, he has served on many committees within those organizations. Holder of many patents, A.J. has a BS degree in mechanical engineering from Oklahoma State University.

**Paul Newberry**, Service Base Manager and Senior Completions Engineer at BP Amoco Wytch Farm field in Dorset, England, works for the Lasalle Project Management division of Reda Production Services. His responsibilities include managing workover and completion operations to retrieve and install electric submersible pump completions, and providing electric submersible pump expertise, materials and logistics support and maintenance facilities for well operations service companies. His 18 years of petroleum production experience include 12 years with BP in the UK and Norway as well as service with AGIP UK as senior petroleum engineer in Aberdeen (1992 to 1993). Paul has a BS degree (Hons) in mechanical engineering from University of Leeds in England.

**Bhavani Raghuraman**, Senior Research Scientist in the Reservoir Dynamics and Control group at Schlumberger-Doll Research (SDR) in Ridgefield, Connecticut, uses laboratory experiments and simulations to quantify benefits of intelligent completions and permanent sensors for real-time control and monitoring. Previously she worked in petrophysics research at SDR, developing a centrifuge technique for simultaneous measurements of capillary pressure and resistivity. She began her career with Herdillia Chemicals (1984 to 1986) in India, where she was involved in simulation and optimization of reactors and separators. From 1987 to 1995, she had postdoctoral positions in the chemical engineering departments at Stevens Institute of Technology in Hoboken, and at Rutgers University, New Brunswick, both in New Jersey. Her work involved wastewater treatment using membrane technology. She has been at SDR since 1995. Bhavani received BS and PhD degrees in chemical engineering from the University of Bombay, India.

**Ruben Rathnasingham**, Senior Research Scientist in the Reservoir Dynamics and Control department at Schlumberger-Doll Research, Ridgefield, Connecticut, does research on the real-time control of reservoirs using advanced monitoring techniques and intelligent completions. He joined the company in 1997. Reuben earned a BS degree from Imperial College in London, England; an MS degree in engineering from Politecnico de Torino, Turin, Italy; and MS and PhD degrees from Massachusetts Institute of Technology in Cambridge, USA. His discipline is aeronautics and astronautics with specialization in active control of turbulent flows.

**Mark Stracke**, Multilateral Technology Business Development Manager for the Schlumberger Advanced Completions group, is based in Rosharon, Texas. He began his career at Kerr McGee in drilling, and for the next seven years had responsibilities ranging from drilling engineer to drilling superintendent. He spent the next 12 years with ARCO working on production engineering and completion engineering in the Houston district (now Vastar), and in drilling and completion engineering and materials technology in the ARCO technology department. He joined Anadrill in 1995 as drilling and completion engineer in the RAPID<sup>®</sup> Reentry and Production Improvement Drilling group. Mark holds BS degrees in bioengineering and mechanical engineering from Texas A&M University in College Station.

**Nick Swinstead**, Industrial Design Manager for Resource Management Services, based in Gatwick, England, and Sugar Land, Texas, provides industrial design and ergonomic services worldwide to engineering and marketing groups within Schlumberger. After obtaining a postgraduate Masters degree in industrial design (engineering) on a joint course at the Royal College of Art and Imperial College of Science and Technology in London, England, he began his career with a London design consultancy working on consumer goods and telephones. He joined Schlumberger to provide in-house industrial design for the Instruments Division in Farnborough, England. This was extended to coordinate product design in Schlumberger affiliates in the US, Germany and France. The group's industrial design and ergonomic services now cover 39 Oilfield Services, Test & Transactions and Resource Management Services sites worldwide. Holder of five design patents and two Design Council Awards from the British Government, Nick is a regular lecturer at the Department of Electronics, Southampton University, and provides external liaison with ergonomists at British Aerospace and the Departments of Ergonomics at Lancaster and Loughborough Universities in England.

**Jarle Toekje**, District Engineer for Camco Services in Norway, is responsible for operational and technical aspects of Norsk Hydro ASA activities. He is currently based at Norsk Hydro in Bergen, Norway. Jarle has been with Camco since 1986 working in several onshore and offshore positions.

**Gary Trotter**, General Manager, Integrated Project Management for US Land, is based in Sugar Land, Texas. He is responsible for all project management activities including drilling, production and other outsourcing and alliancing activities in the US. Prior to this he was founder, president and CEO of Coastal Management Corporation, which was purchased by Schlumberger in April 1998. Gary began his career with Sun Oil Company where he worked as an offshore drilling and production engineer in both Houston, Texas, and Ventura, California (1972 to 1976). He then became operations manager, in charge of all offshore production activities, for Houston Oil and Minerals (1976 to 1982). He spent the next five years as vice president of operations for Global Natural Resources in Houston. He also served as President of Bryan Woodbine Operating Company in Bryan, Texas (1986 to 1989). Gary is a graduate of Lamar University, Beaumont, Texas, with a BS degree in mechanical engineering, and is a Registered Professional Engineer in Texas.