



Randy L. Limbacher, SPE, was named president and chief executive officer of Rosetta Resources. Before this appointment, he was president, Exploration and Production–Americas for ConocoPhillips. Limbacher earned a BS degree in petroleum engineering from Louisiana State University.

John Moffatt, SPE, was named vice president and general manager of the Middle East region for RigNet. Before this appointment, he was director of Weatherford Direct. Moffatt has worked in oilfield services at both Weatherford and Halliburton in the Middle East and North Sea markets.



Iain Percival, SPE, received the Outstanding Individual Achievement Award from the UK Energy Institute. He was recognized for his efforts in the field of mentoring, in interactions with schools and universities, and in building connections between the oil industry and the two Aberdeen universities. Percival retired from Shell in 2006 after 33 years of service.



Still



Bullard

Pioneer Natural Resources reported two appointments. **Jay Still**, SPE, was named executive vice president, Domestic Operations. Before this appointment, he was executive vice president, Western Division, for Pioneer Natural Resources. Still earned a BS degree in mechanical engineering from Texas A&M University and an MBA degree from Loyola University. **Denny B. Bullard**, SPE, was named vice president, Operations Services. Before this



Richard Ewing, a professor of mathematics and applied mathematics at Texas A&M University and founding director of the Institute for Scientific Computation (ISC), died 5 December 2007.

Ewing was a world-renowned scientist in mathematics, engineering, and computational sciences. He received recognition for his research on numerical methods for partial-differential equations, preconditioning techniques, adaptive computational methods, and upscaling for fluid flows in porous media. His work focused on the mathematical modeling of multiphase flows and transport in petroleum reservoirs and subsurface aquifers. He made discoveries and contributions to his field of research and authored or coauthored more than 330 publications.

Ewing contributed to the advancement of education and the scientific community for many years as the vice president for research at Texas A&M. He provided leadership and coordination of the development, implementation, operation, and assessment of programs to support creative scholarship, graduate studies, and sponsored research throughout the university. Ewing led Texas A&M and ISC to form a number of long-term strategic research alliances with many international partners including Mexico, China, and Qatar.

In November 2003, he was involved in the first China-US Relations conference hosted at Texas A&M. The conference led to several research agreements between Chinese and Texas A&M researchers. The conference has become a biennial event. Also in 2003, Texas A&M opened a branch campus in Doha, Qatar, and Ewing led the creation of the first two research centers. The centers, which focus on production and use of natural resources and environmental sustainability, are in Doha, with partner laboratories in College Station, Texas.

Ewing served on the board of directors of the National Space Biomedical Research Institute, the Texas Institute for Genomic Medicine, the Houston Technology Center, the Texas A&M Research Foundation, the Associated Western Universities group, the Southwestern Universities Research Association, and the Texas Healthcare and Biosciences Institute. He also was recently appointed to the Texas Product Development and Small Business Incubator Board.

Ewing served as coprincipal investigator for the multimillion-dollar Grand Challenge Project funded by the US Department of Energy, which involved five universities and three national laboratories. He was also a coprincipal investigator on the Disaster Relief and Emergency Medical Services project, with USD 10 million annual funding, and the National Science Foundation Information Technology in Science Center for Teaching and Learning.

Ewing earned PhD, MA, and BA degrees in mathematics from the University of Texas at Austin. He served on the editorial boards for 12 major national and international scientific journals. Ewing held the Mobil Technology Company chair in computational science and a distinguished research chair in the Texas Engineering Experiment Station. He received an honorary doctoral degree from the University of Bergen, Norway, and an honorary guest professorship from Shandong University, China. He received the Alexander von Humboldt Research Award from Germany and was elected as a foreign member of the Academia Europaea. The Richard Ewing Award for Excellence in Science, Technology, and Economic Development was established to recognize his many accomplishments.



Joseph G. Richardson, an SPE Legion of Honor member who authored or coauthored more than 50 papers and held three patents, died 18 November 2007.

Richardson began his oil and gas career with Humble Oil and Refining in 1948 and then served as the principal adviser for the management of many of Exxon's oil and gas reservoirs. He received Exxon's Award of Excellence, Outstanding Lecturer, Advanced Reservoir Engineering School, in 1973, 1975, 1977, and 1980.

Richardson was a member of SPE, the American Petroleum Institute, and the National Academy of Engineering (NAE). He served on or chaired many SPE committees beginning in the 1960s, including the Monograph Committee; Editorial Review Committee; Nominating Committee; Reserves Committee; Policies and Guidelines for Publications Committee; Waterflood Reprint Series Committee; Annual Meeting Program Committee; Cedric K. Ferguson Medal Committee; and DeGolyer Distinguished Service Medal Committee.

Richardson was the first senior technical editor for *JPT*, during 1976–79, and he wrote 38 technology-summary columns. He served on the SPE Board of Directors during 1980–82. Richardson received the Lester C. Uren Award in 1977 and the DeGolyer Distinguished Service Medal in 1978, and he was recognized as a Distinguished Member in 1983. He also was elected Honorary Member in 1987.

In 1988, Richardson was recognized as an Honorary Member by the American Institute of Mining, Metallurgical, and Petroleum Engineers and was elected a member of NAE. He was included in Who's Who in Engineering and was a Texas-licensed professional engineer. He earned BS and MS degrees in chemical engineering from Texas A&M University in 1947 and Massachusetts Institute of Technology in 1948, respectively.

After 38 years with Exxon, Richardson retired from Exxon Production Research (EPR) in 1986 as senior engineering scientist, the highest position on EPR's professional ladder at that time. Following retirement, he was a partner in Richardson, Sangree, and Sneider and president of J. Richardson Consultants, both Houston-based consulting companies.

appointment, he was vice president, Engineering and Development, for Pioneer Natural Resources' operating subsidiary. Bullard earned a BS degree in petroleum engineering from Texas Tech University.



Francis D. Udoh, SPE, joined the Department of Chemical and Petroleum Engineering, University of Uyo, as a senior lecturer. Before this

appointment, he worked as an environmental engineer/specialist at the Arizona Department of Environmental Quality. Udoh earned BS, MS, and

MEMBER DEATHS

T.E. McGaugh Jr., Fort Worth, Texas

George B. Nilsen, The Woodlands, Texas

G.C. Van Zelfden, Richardson, Texas

Henry J. Welge, Long Beach, California

Robert J. Woodward, Fallbrook, California

PhD degrees in mining engineering and an MS degree in curriculum and instruction, all from the University of Wisconsin-Madison.

SI METRIC CONVERSION FACTORS

The list below includes SI Metric conversion factors for common engineering units. *The SI Metric System of Units and SPE Metric Standard*, the Society's official standard, is available from SPE Book Order Dept., P.O. Box 833836, Richardson, TX 75083-3836.

acre × 4.046 873	E+03 = m ²
acre × 4.046 873	E-01 = ha
acre-ft × 1.233 489	E+03 = m ³
ampere-hr × 3.6*	E+03 = C
Å × 1.0*	E-01 = nm
°API 141.5/(131.5+°API) = g/cm ³	
atm × 1.013 250*	E+05 = Pa
bar × 1.0*	E+05 = Pa
bbl × 1.589 873	E-01 = m ³
Btu × 1.055 056	E+00 = kJ
Ci × 3.7*	E+10 = Bq
cp × 1.0*	E-03 = Pa•s
cycles/sec × 1.0*	E+00 = Hz
dyne × 1.0*	E-02 = mN
eV × 1.602 19	E-19 = J
ft × 3.048*	E-01 = m
ft ² × 9.290 304*	E-02 = m ²
ft ³ × 2.831 685	E-02 = m ³
°F (°F - 32)/1.8 = °C	
°F (°F + 459.67)/1.8 = K	
gal (U.S. liq) × 3.785 412	E-03 = m ³
hp × 7.460 43	E-01 = kW
hp-hr × 2.684 520	E+00 = MJ
in. × 2.54*	E+00 = cm
in. ² × 6.451 6*	E+00 = cm ²
in. ³ × 1.638 706	E+01 = cm ³
kip × 4.448 222	E+03 = N
knot × 5.144 444	E-01 = m/s
ksi × 6.894 757	E+03 = kPa
kW-hr × 3.6*	E+06 = J
lbf × 4.448 222	E+00 = N
lbm × 4.535 924	E-01 = kg
mL × 1.0*	E+00 = cm ³
mho × 1.0*	E+00 = S
mile × 1.609 344*	E+00 = km
oz (U.S. fl) × 2.957 353	E+01 = cm ³
psi × 6.894 757	E+00 = kPa
psi ² × 4.753 8	E+01 = kPa ²
sq mile × 2.589 988	E+00 = km ²
stokes × 1.0*	E-04 = m ² /s
ton × 9.071 847	E-01 = Mg
ton (metric) × 1.0*	E+00 = Mg
tonf × 8.896 444	E+03 = N
tonne × 1.0*	E+00 = Mg

*Conversion factor is exact.

These conversion factors are from *The SI Metric System of Units and SPE Metric Standard*, SPE, Richardson, Texas (1984).