Methane conversion (Studies in Surface Science and Catalysis, 36), edited by D.M. Bibby, C.D. Chang, R.F. Howe, and S. Yurchak, ISBN 0-444-42935-2, Elsevier Science Publishers B.V., Amsterdam, 1988, pp. 741 + XIII, Dfl.375.-.

This enormous book represents the proceedings of a symposium on the production of fuels and chemicals from natural gas, held in Auckland, New Zealand, in April 1987. It assembles a large amount of information, with an emphasis on Antipodean practice which will undoubtedly be new to many people. It is very much concerned with application and practice, rather than with chemistry of an organometallic kind.

The first section deals with methane conversion to syngas and methanol, and syntheses from methanol. The next deals with other possible ways to exploit methane, for example via oxidative coupling and dehydrogenation. The discussion then turns to zeolites and other catalysts, and the final section deals with the commercialization of the gas-to-gasoline process.

This is a beautifully produced book. Organometallic chemists will not find it of great value, but it will certainly assist those who are looking for material for teaching, or who wish to gain general background information. Physical chemists interested in heterogeneous catalysis will undoubtedly find it more useful.

AFRC-I P.S.R. Nitrogen Fixation Laboratory, University of Sussex, Brighton BN1 9RQ (Great Britain) G.J. Leigh

Compendium of Chemical Terminology: IUPAC Recommendations; compiled by V. Gold, K.L. Loening, A.D. McNaught, and P. Sehmi, Blackwell, Oxford, etc., 1987, viii + 456 pages. £45.00 (hard cover) ISBN 0-632-01765-1; £29.50 (soft cover) ISBN 0-632-01767-3.

This book represents the fruits of several years of effort by its compilers, initiated by the late Professor Victor Gold. He saw the desirability of bringing together in accessible form all the definitions of chemical terms aproved by various IUPAC committees and, assisted by P. Sehmi, had assembled much of the relevant material by the time of his death in 1985. There was still much to do, however, in editing and organizing the material, and this was done by K.L. Loening and A.D. McNaught, with facilities provided by the Royal Society of Chemistry.

The compilation is a most valuable addition to the chemical literature. At last authoritative definitions are available for many chemical terms, from *absolute activity* to *Z-values*, and these are presented so clearly and straightforwardly that one can actually read through them with pleasure to improve one's general chemical background. Advanced students would, in fact, find such reading an excellent aid to their revision before examinations.

The book is so useful that one must regret that its coverage is not much more complete. The scope was limited partly by the fact that entries are restricted to items considered by IUPAC committees, and partly by the lack of adequate resources. IUPAC and the major national chemical societies, (perhaps with financial contribution from major scientific publishers) should now fund this activity on an appropriate scale without delay.