

## CONTENTS OF No. 362, OCTOBER 1987

	<i>page</i>
<i>Mineralogy and petroleum genesis</i>	
D. A. C. MANNING: Mineralogical studies of petroleum genesis, migration and entrapment	475
R. C. BURRUSS: Diagnetic palaeotemperatures from aqueous fluid inclusions: re-equilibration of inclusions in carbonate cements by burial heating	477
G. P. COOLES, A. S. MACKENZIE, and R. J. PARKES: Non-hydrocarbons of significance in petroleum exploration: volatile fatty acids and non-hydrocarbon gases	483
T. I. EGLINTON, C. D. CURTIS, and S. J. ROWLAND: Generation of water-soluble organic acids from kerogen during hydrous pyrolysis: implications for porosity development	495
J. PARRELL and P. EAKIN: The replacement of sandstones by uraniferous hydrocarbons: significance for petroleum migration	505
A. H. RANKIN, M. F. MILLER, and J. S. CARTER: The release of trace elements and volatiles from crinoidal limestone during thermal decrepitation	517
J. FERGUSON: A possible role for light hydrocarbons in Pb-Zn mineral exploration	527
I. C. SCOTCHMAN: Clay diagenesis in the Kimmeridge Clay Formation, onshore UK, and its relation to organic maturation	535
<i>Geochemistry</i>	
E. GÖKTEN and P. A. FLOYD: Geochemistry and tectonic environment of the Şarkışla area volcanic rocks in central Anatolia, Turkey	553
C. DUPU, J. DOSTAL, and J. L. BODINIER: Geochemistry of spinel peridotite inclusions in basalts from Sardinia	561
<i>Mineralogy</i>	
C. A. FINLAY and A. KERR: Evidence for differences in growth rate among garnets in pelitic schists from northern Sutherland, Scotland	569
S. DASGUPTA, P. K. BHATTACHARYA, H. BANERJEE, M. FUKUOKA, N. MAJUMDAR, and S. ROY: Calderite-rich garnets from metamorphosed manganese silicate rocks of the Sausar Group, India, and their derivation	577
M. T. FROST, G. TSAMBOURAKIS, and J. DAVIS: Holmquistite-bearing amphibolite from Green-bushes, Western Australia	585
P. J. TRELOAR: Chromian muscovites and peidotes from Outokumpu, Finland	593
P. MITROPOULOS: Primary allanite in andesitic rocks from the Poros Volcano, Greece	601
E. H. NICKEL and J. E. TEMPERLY: Arsenoflorencite-(Ce): a new arsenate mineral from Australia	605
K. TOGARI and M. AKASAKA: Okhotskite, a new mineral, an Mn <sup>3+</sup> -dominant member of the pumpellyite group, from the Kokuriki mine, Hokkaido, Japan	611
M. AKIZUKI: An explanation of optical variation in yugawaralite	615