

**REMOVAL AND RECOVERY OF NICKEL FROM ELECTROPLATING
SOLUTION BY PRECIPITATE FLOTATION**

JINMING ZHANG, K.T. BRADY and S.X. REN

*School of Science (Metallurgy), University of Ballarat ,
P.O. Box 663, Ballarat, Vic.3353, Australia*

ABSTRACT

In this study, the removal of nickel from a drag-out solution containing up to 1614 ppm of nickel ion has been achieved by the precipitate flotation method using sodium sulfide as precipitant and dodecylammonium acetate (DAA) as collector.

From the optimization of various precipitation and flotation parameters, it is concluded that nickel contained in this solution can be reduced to below 2 ppm, and simultaneously a by-product of nickel sulfide containing 42.6% nickel has been obtained.