## Dr. W. Quapp

Corrigendum: Gradient extremals and valley floor bifurcation on
                    potential energy surfaces

Theor. Chim. Acta $\underline{75}$ (1989) 447

The last section on page 453 should be replaced by:

"On $GE_3$ the gradient takes an extremal value if we test it over any contour line, see Fig.6. Uphill to $BP_1$ $v_2$ is a valley, between $BP_1$ and (0,0) $GE_3$ goes along a cirque, between (0,0) and $BP_2$ along a cliff and fr-om $BP_2$ uphill $r_2$ is a ridge. The corresponding $\sigma$-curve over a contour line is a Ginzburg-Landau potential of the form const.$(\frac{1}{4} t^4 + \frac{1}{2} a t^2)$ with $a < 0$ between the BP's $a \doteq 0$ in the BP's and $a > 0$ else. " See ref./1/.

(Especially, the curve in Fig.6a is incorrectly turned.)

/1/ R.Gilmore:"Catastrophe theory for Scientists and Engineers"
                Wiley,New York, 1981, p.190, Fig.10.1