# Additions and Corrections

A Method for the Analysis of Puckering Disorder in Five-Membered Rings: The Relative Mobilities of Furanose and Proline Rings and Their Effects on Polynucleotide and Polypeptide Backbone Flexibility [*J. Am. Chem. Soc.* **1983**, *105*, 970–976]. E. WESTHOF and M. SUNDARALINGAM*

Page 971: In Figure 1b of this paper, the nomenclature depicting the various puckered states has been inadvertently inverted and should be shifted around the pseudorotation circle by half a turn such that for $P = 0°$ the pucker is $^{\beta}_{\gamma}T$ and for $P = 180°$ $^{\gamma}_{\beta}T$, as defined in ref 17. The corrected part b of figure is shown below. Thus, in p 973, the notations for the prolyl ring pucker for L-leucyl-L-prolylglycine should be inverted.
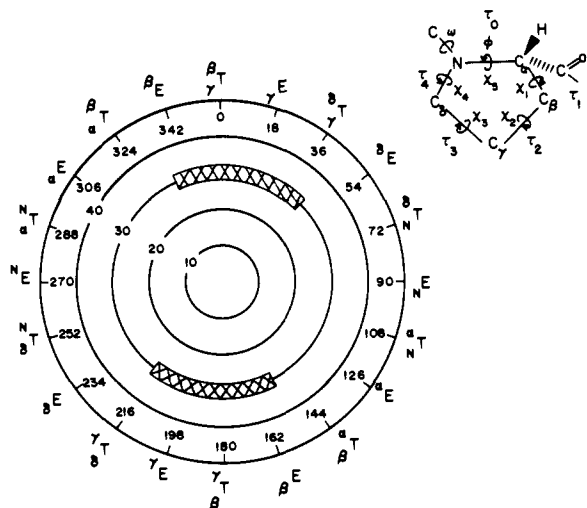
Nonlinear Fluorescence Quenching and the Origin of Positive Curvature in Stern–Volmer Plots [*J. Am. Chem. Soc.* **1983**, *105*, 1494]. JOEL KEIZER

Equation 8 involves a factor of two error which also invalidates eq 15 and 16. The correct equations are

$$g_{A^*Q}(r) =$$
$$1 - \frac{k^{obsd}/N'}{4\pi D'r}\left[\frac{(\alpha - 2\beta)}{2(\alpha - \beta)}\exp(-r\beta^{1/2}) + \frac{\alpha}{2(\alpha - \beta)}\exp(-r\alpha^{1/2})\right] \tag{8}$$

$$k^{obsd} = 4\pi D'RC(R) \tag{15}$$

$$C(R) = \left[\frac{D_Q - D_{A^*}}{2D_Q}\exp(-R\beta^{1/2}) + \frac{D'}{2D_Q}\exp(-R\alpha^{1/2})\right]^{-1} \tag{16}$$

$\alpha = (\tau_0^{-1} + k^{obsd}[Q])/D_{A^*}$, $\beta = (\tau_0^{-1} + k^{obsd}[Q])/D'$. This changes the comparison with experiment slightly. Agreement with the Stern–Volmer plots as good as that in Figures 1 and 2 is obtained by using the following parameters: quinine*/I⁻ ($D_{A^*} = 4 \times 10^{-6}$ cm² s⁻¹, $D_Q = 1.2 \times 10^{-5}$ cm² s⁻¹, $R = 5.5$ Å, $\tau_0 = 19$ ns); perylene*/O₂ ($D_{A^*} = 9 \times 10^{-6}$ cm² s⁻¹, $D_Q = 4 \times 10^{-5}$ cm² s⁻¹, $R = 3.2$ Å, $\tau_0 = 5.4$ ns); 9-vinylanthracene*/O₂ ($D_{A^*} = 7 \times 10^{-6}$ cm² s⁻¹, $D_Q = 4 \times 10^{-5}$ cm² s⁻¹, $R = 3.6$ Å, $\tau_0 = 11$ ns); tryptophan*/O₂ ($D_{A^*} = 7 \times 10^{-6}$ cm² s⁻¹, $D_Q = 2.6 \times 10^{-5}$ cm² s⁻¹, $R = 2.7$ Å, $\tau_0 = 2.7$ ns). The tryptophan*/O₂ quenching fits perfectly with the assumption of diffusion control. The uranin-*/aniline quenching data (Figure 2) no longer can be fit by eq 15, suggesting that static quenching may be important.

Cluster Synthesis. 6. The Unusual Structures, Bonding, and Reactivity of Some Sulfido-Bridged Tungsten–Osmium Carbonyl Cluster Compounds [*J. Am. Chem. Soc.* **1984**, *106*, 6296]. RICHARD D. ADAMS,* ISTVAN T. HORVATH, and PRADEEP MATHUR

Page 6303: Table IX in the text is incorrect in its entirety. These were the fractional atomic coordinates for a very similar but different molecule. Table 21 in the Supplementary Material is also incorrect. The corrected versions of these tables are available in the Supplementary Material.

Page 6298: In Table II of the text, the formula for compound **5** should be $Os_3W_2S_2P_2O_{14}C_{30}H_{22}$ rather than $Os_3W_2S_2P_2O_{15}$-$C_{31}H_{22}$.

Supplementary Material Available: Corrected Table IX in the text and Table 21 in the supplementary material (2 pages). Ordering information is given on any current masthead page.

Determination of Adsorption Conformation from Surface Resolution Analysis [*J. Am. Chem. Soc.* **1985**, *107*, 3368]. D. FARIN, A. VOLPERT, and D. AVNIR*

Page 3369: The short axis (s) in Table II was mistakenly taken as radius instead of diameter. Consequently, the column "short axis" should be multiplied by 2 and the column "$1/s$" divided by 2. This correction does not affect the other data (Table I and the figures) and does not alter the results and the conclusions.