complexes are the *trans*-L–M–L and *trans*-X–M–Y angles. When L = CO, the L–M–L angles are all similar, 108 ± 3°, with extreme values being noted for $CpMo(CO)_3(ZnBr)$ (100.9)[2l] and $[CpMn(CO)_2(PPh_3)(SnCl_3)]^+$ (115.1°).[2i] When L is a more sterically-demanding phosphine ligand, a wider range of values is found; some representative examples are given in Table IV. Because of the counteracting influences of the apical Cp group, which would favor small P–M–P angles, and the basal X and Y groups, which favor large P–M–P angles, no clear correlation of P–M–P angles with phosphorus cone angles is apparent. In the extreme where X = Y = H and basal steric conflicts are minimized, an unusually small P–M–P angle of 108.6° is in fact observed for *trans*-$CpRe(PPh_3)_2H_2$.[2j] This tendency is consistent with the previously noted preference for trans stereochemistry in hydride chelates, $CpM(P\frown P)(H)_2$.[7,8]

The trans coordination mode of **1** may be similarly attributed to steric interactions. All cis complexes $CpM(L\frown L)(X)(Y)$ previously reported in the literature incorporate relatively small chelating groups. To the best of our knowledge dppe is the largest chelate previously reported, with a cone angle θ of 125°, which is considerably less than that of dfppe ($\theta = 151°$). Given identical X and Y basal groups, one would anticipate a greater driving force for trans coordination in **1** to minimize interactions between dfppe and the cyclopentadienyl group.

Establishing a steric "crossover" point between *cis*- and *trans*-$CpM(L\frown L)(X)(Y)$ coordination geometries would provide a useful predictive guideline in future $CpML_4$ studies. In comparing NMR spectroscopic data of **1** with *cis*-CpMo(dppe)(CO)Cl, we noted the presence of a minor cyclopentadienyl resonance (≈8%) in the ^1H NMR spectrum of CpMo(dppe)(CO)Cl at δ 5.13 along with a corresponding singlet in the ^{31}P NMR at δ 81.9 that is very close to the average of the phosphorus chemical shifts of the cis isomer. It seems probable that these resonances are due to *trans*-CpMo(dppe)(CO)Cl and that in this particular system the free energies of the cis and trans isomers are closely comparable.

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Supplementary Material Available: A table of complete data collection parameters and full listings of atomic distances and bond angles, anisotropic thermal parameters, and hydrogen atom coordinates and isotropic thermal parameters (9 pages); a listing of calculated and observed structure factors (17 pages). Ordering information is given on any current masthead page.

Additions and Corrections

1989, Volume 28

David P. Fairlie, W. Gregory Jackson,* and George M. McLaughlin: Cobalt-Induced Facile Degradation of Phenylurea to Ammonia, Carbon Dioxide, and Anilinium Ion and Other Reactions of Linkage Isomeric Cobalt(III) Complexes of Phenylurea.

Page 1983. In the abstract, the space group *C2/c* with $Z = 8$ is given incorrectly. It should read space group *Cc*, $Z = 4$.—W. Gregory Jackson

1990, Volume 29

Ludwig Bär, Helmut Englmeier, Günter Gliemann,* Ulrich Klement, and Klaus-Jürgen Range*: Luminescence at High Pressures and Magnetic Fields and the Structure of Single-Crystal Platinum(II) Binuclear Complexes $M_x[Pt_2(POP)_4]\cdot nH_2O$ ($M_x = Ba_2$, $[NH_4]_4$; POP = $P_2O_5H_2^{2-}$).

Pages 1162–1168. The supplementary material was omitted from the original paper. It has now been included, as indicated in the following paragraph.

Supplementary Material Available: Tables of atomic positional and isotropic thermal parameters, anisotropic thermal parameters, and bond lengths and angles (5 pages); listings of observed and calculated structure factors, the last refinement cycle, and difference Fourier syntheses (25 pages). Ordering information is given on any current masthead page. —Ulrich Klement