

GENEALOGY DATABASE ENTRY

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Basolo, Fred

1920 -

DEGREE: PhD

DATE: 1943

PLACE: Illinois

TEACHER/RESEARCH ADVISOR: Bailar

investigated ligand substitution reactions of transition metal complexes; pioneer (with Ralph Pearson) in the application of ligand field theory to mechanistic coordination chemistry; discovered the conjugate base mechanism of S_N1 reactions in cobalt ammine complexes; discovered the ring slip mechanism for associative substitution reactions of cyclopentadienyl metal complexes; isolated and characterized first monomeric cobalt O_2 complexes

1. *Coord. Chem. Rev.* **1990**, *99*, 1-13.
2. *Coord. Chem. Rev.* **1990**, *100*, 47-66.