Inorganic Chemistry Laboratory

Chemistry 236

Section: D100

Term: 2000 Fall

Instructor: Dr. A. J. (Lee) Hanlan.

Office: C-8066.

Discussion Topics: General Course Description:

An introduction to the synthetic and spectroscopic techniques used in the preparation and characterization of both main group and transition metal compounds.

0 lecture hours/week; 0 tutorial hour/week; 4 lab hours/week

Topics:

Main Group

Introduction to Infrared Spectroscopy in Inorganic Chemistry

The Oxidation States of Tin: Preparation of Tin (IV) and Tin (II) Iodide

Silicone Polymers

Transition Metal Chemistry

Synthesis and Thermal Decomposition of [(C6H5)3P]2CuBH4, an Electron-Deficient Compound

Werner Complexes: Preparation and Determination of Structural Formula

Synthesis and Isomerization of Nitro- and [Nitritopentamminecobalt(III)]chloride.

Grading: 75% Lab Results, Reports and Technique. 25% Written Quizzes.

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Required Texts: A Laboratory Manual will be distributed at the first lab lecture in Week 1.

Recommended Texts: None

Materials/Supplies: Students must purchase Safety Glasses.

Prerequisite/Corequisite: Prerequisite: CHEM 122 and 126 (or 103 & 118). Corequisite: Chem 230.

Notes: None