

# Space Journal

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## Free Information

Space Enterprises, Inc.

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## free information

*Editors note:* Information will be supplied on any of the items listed below. Write to Editor, SPACE Journal, 316 Howerton, Nashville, Tennessee.

**PIC Design Corporation**, a subsidiary of Benrus Watch Company, Inc., is offering, upon request, copies of their new, 416-Page Master Catalog No. 20a.

This catalog has been printed on special custom-made "Bible-Leaf" paper to reduce valuable file and drawing board space. Consolidating all previous catalogs and supplements, the new catalog lists over 10,000 items, including gears, shafts, collars, couplings, speed reducers, differentials and other precision items available from STOCK.

In addition to detailed drawings, complete specifications and prices, the new catalog contains separate Technical Data, Breadboard Kit and Precision Tool Components Section.

A new **1959 Catalog of Aviation & Technical books** is available free-of-charge from Aero Publishers.

Described in this 36-page catalog are books of all publishers, including the Government Printing Office, on Jets, Rockets, Missiles, Space Travel, Engineering, Piloting, Aviation History, Maintenance & Production, Electronics, Flight Operations, Logbooks, Mathematics, Model Building, Nuclear Energy, Meteorology, Navigation, and just about anything else pertaining to aeronautics and its allied industries. Some navigation computers and other pilot supplies are also listed.

The United States Air Force has contracted with **Callery Chemical Company**, Pittsburgh, Pa., to supply HiCal, a boron-based high-energy fuel, for a classified military project.

Delivery of the fuel will begin immediately from the firm's Lawrence, Kansas, plant. The entire production of the plant has, until now, been utilized by the Navy. The plant went onstream last fall.

Callery has also announced that HiCal will soon be available to aircraft, missile, and rocket manufacturers for evaluation in engines and components.

HiCal can be shipped under ICC regulations in specially-designed cylinders.

Information on handling the fuel is available.

The Research Chemicals Division of **Nuclear Corporation of America** now has available a revised price list of the rare earth oxides and salts used in varied research for military and institutional purposes. Dr. Eugene V. Kleber, who heads the Division, noted that the prices of a number of the purified rare earths are greatly reduced.

Successful development in the laboratory of a new vacuum "plating" process which will deposit a tightly-adherent, decorative and corrosion-resistant coating of pure aluminum on a wide range of base metals from high tensile and mild steels to aluminum die casting alloys has been announced by the research division of **National Research Corporation**. The ductile, non-porous coatings may be anodized to provide excellent wear resistance as well as attractive coloring in a full spectrum of metallic pastel and dark shades.

Potentially large-volume applications appear in several industries such as the automotive field for both exterior and interior bright or colored trim and in household appliance manufacture for decorative purposes. Other potential applications include aircraft and missile parts and marine hardware.

Aircraft interest in corrosion-resistant aluminum coatings stems in large part from the fact that most previously employed organic and metallic protective coatings will not withstand temperatures above 500°F and are frequently subject to chemical attack from some fuels and insulating materials. A large airplane manufacturer has tested NRC aluminum coatings for periods up to 1,400 hours in 20 per cent salt spray and salt fog without failure. Laboratory tests indicate hydrogen embrittlement of high tensile steels encountered in conventional electroplating of aircraft and missile components for corrosion protection is eliminated in the vacuum coating process.

Preliminary estimates for vacuum plating show that process costs on a commercial scale should be competitive with conventional electroplating for a number of applications.

Additional information available.