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Scientist Says Fuel Station Can Boost Payloads in Space

A fueling station for space vehicles 60 to 70 miles from earth could increase the range or payload of space missions by as much as 10 times, a research scientist of Northrop Corporation's Norair Division said in Philadelphia recently.

The fueling station, called PROFAC (propulsive fluid accumulator)), would be a manned, air-gulping powered satellite.

The scientist, Dr. Sterge T. Demetriades, described the PRO-FAC concept at the Symposium on Engineering Aspects of Magnetohydrodynamics at the University of Pennsylvania.

PROFAC, he said, could increase the capability of boosters such as the planned 1.500 .-000-pound-thrust Saturn rocket to include round - trip multimanned missions to the moon and planets.

The PROFAC powered satel- loads, Dr. Demetriades said. lite would orbit in a region of However, he pointed out, to reextremely thin sir, he said. It main in orbit at altitudes of would accumulate air, liquefy 60 to 70 miles the PROFAC and store it. Part of this air satellite must be powered to would be used to power the satel- overcome a small amount of lite and part would be taken on aerodynamic drag and the greatby outbound space vehicles. Aboard these outbound vehic- lection.

FUELING STATION - Air-collecting PROquid air to space vehicle in rendezvous at FAC in foreground is ready to transfer li-

or the increased efficiency could ions would be mixed with a booster per pound of payload. be used to extend range or pay- stream of air molecules.

Colliding with the se air molecules, the ions would force

Smaller boosters could be used, to still higher velocities. These cut this ratio to 30 pounds of to five minutes.

propulsion-by heating or iroiz- provided by a ramjet using the hicles.

remainder would be available for enough to put the PROFAC ve- As a result of Supervisor Ken-blacked-out room.

nuclear energy or using it as mics. A small percentage of the said, we need 300 pounds of may be required.

60 to 70 miles. Payload increases 10 times. The technical knowledge and hardware for liquefying the collected air is already available, them out the ramjet's exhaust he said. The principal problem gitude references are included.

nozzle at 50,000 feet per sec- remaining is the magnetogasdyond or higher to produce namic or electrical acceleration of the air for propulsion. This Civil Service a aerodynamic drag and the great-er drag caused by ram-air col-part of the collected air. The solved by the time boosters large to Review Ages

les, the air would be used for The satellite power would be fueling of outbound space ve- hicle into orbit are available. The neth Hahn's request that the

ing it and accelerating it with principle of magnetogasdyna- At present, the Norair scientist rocket, due in the 1965-67 period, adopt more realistic regulations the early stages of the infecconcerning age limits for county tion unless a Wood's light is an oxidizer for chemical rocket collected air would be used to booster rocket weight for each Already, Dr. Demetriades jobs, the commission is review-used, but soon the hair in each of fungus and the duration of fuel. This would eliminate up to form'a jet or highly accelerated pound of payload to be landed pointed out, streams of air have ing its practices in preparation patch becomes dull and life. the infection is directly relat-90% of the load a booster rock-ions. Electric and magnetic fields on the moon. Use of the PRO-been accelerated to 20,000 feet for a public hearing on amend-is found. The animal type, for et would have to lift from earth. would then accelerate the ions FAC technique, he said, could per second for periods of three ments to its rules so age require scalp.

ments will be standardized.



TORRANCE PRESS

Parks and Recreation.

Braille Globe

Aids the Blind

Youth Band Slates YOUR GOOD HEALTH Outdoor Concert **New Drug Proves Effective** A concert will be given by the Torrance Area Youth Band at 7 for Ringworm of the Scalp p. m. Wednesday in a portable band shell in front of the courthouse, 3231 Torrance Blvd. The public may attend, free of charge. The concert is being sponsored by the Department of

By Roy O. Gilbert, M. D. |able sign that an abnormal L. A. County Health Officer | condition exists. The lesions Ringworm of the scalp is a usually expand to about the troublesome and contagious size of a dollar and eventually skin disease that occurs chiefly the hair drops off.

among school children, al- Generally speaking, there are though cases ocacsionally do three different types of ring-

A large Braille relief globe that enables blind people to study geography and follow the course the infortune treatment, fungus. The least bothersome geography and follow the course the infection may last for is caused by the fungus Microsporum lanosum. It is often re of current events has been do- many months or years. ferred to as the animal type nated to the Braille Institute. The disorder is caused by

Measuring 33 inches in dia-meter, the globe defines the world's political and geographical boundaries and tonographical oundaries and topographical the hair follicle, and eventually cats.

features by Braille markings in the hair shaft itself. This is addition to identifying major followed in about 10 to 14 days types prevalent in this area countries and cities in the raised- by one or more oval, grayish. dot system of writing. Brailled white patches that appear on sporum adounini and Trichodelineations of latitude and lon- the scalp.

These patches are not visible under ordinary light but ually spread from person to can be seen as fluorescent ar- person. Most adults and adolescents are resistant to Microeas when the scalp is examinsporum adouini infections. On ed under a Wood's light (filthe other hand, although chiltered ultraviolet rays) in a dren are more susceptible, all

The scalp and hair may look ages are subject to infection by 6,000,000 - pound thrust Nova county Civil Service Commission normal to the untrained eye in the Trichophyton species.

This is often the first notice.

Want Ad DA 5-1515 Classification INDEX ANNOUNCEMENTS Legal Notices Announcements Funeral Homes Cemetery Lots Card of Thanks Lost and Found Personals Transportation Sanitariums and Rest Homes Rest Homes The two so-called human n Alds Yourself SERVICES phyton tonsurans, and these Professional Services Bookkeeping Service Income Tax Home and Business Maintenance—Business Residential. Improvement Service forms of the diseases are us-Improvement Servainting and Deco uilding and Remu uilding Materials guipment Rentals umbing Services ardening and Landscapin Nurseries Rug and Upholstery Cleaners Moving and Movers Laboratory examination is Theatrical Dress Making, Alterations Child Care Miscellaneous Services required to determine the type EMPLOYMENT Situations Wanted (Men) Situations Wanted (Wome Employment Offered (Wo Employment Offered (Wo Employment Offered (Men and Women) instance, has a usual duration of not more than three to four months, whereas the human types of the disorder persist for many months and even FINANCIAL years. In 97% of all cases, the

Business Opportunitie Business Opportunities Insurance Loan Money to Loan Money Wanted Real Estate Loans Wanted Mortpages (Trust Deds) Homes Built On Your Lot Stocks and Bon⊲s regrowth of hair is normal af-While ringworm of the scalp,

REAL ESTATE

REAL ESTATE

Houses for Rent (Unfurnis Houses for Rent (Furnishi Apartments for Rent (Unfurnished) Apartments for Rent (Euroished)

(Furnished) Resorts & Cabin Rentals Rooms for Pent Room and Board Rentals (Commercial) ... Rentals (Miscellaneous Wanted to Rent

MISCELLANEOUS

Parlo, Tele Radio and Equipment

Wanted

Carpets. Floor

T.V S (Stores chines

(Sales and Service)

Sales and

RENTALS

REAL ESTATE Homes For Sale Real Estate Trades Summer Cottages And Resorts Lots for Sale (Business and Residential) Income Property For Sale Business Properties For Rale or Lease For Sale or Lease Fronger Management Acreage Wanted Buildings to be Moved Property Management Acreage Wanted Stores & Offices for Rent or Lease

particularly the human type, is contagious, it is not usually considered necessary to exclude an infected child from school. Nevertheless, it is imperative that instructions be followed very carefully to the prescribed treatment and to the preventive measures that must be employed to prevent spread of the disease. Otherwise the period of infection may be unduly pro-

ter cure.

longed. Griseofulvin, a new drug that is taken by mouth, is recently coming into use, and gives promise of being more effective in the treatment of ringworm of the scalp than those medications now currently employed.

A pamphlet on ringworm, which includes a brief discussion of ringworm of the scalp. will be mailed to anyone who sends a card of request to the Division of Health Education, Los Angeles County Health Department, 241 N. Figueroa St. Los Angeles 12.

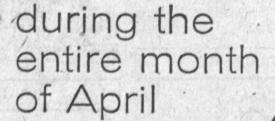
PFC Clyde Mose **Completes** Class

Sunday, April 3, 1960

To

A

Start



current

rate

annual

Back in 1945 Southwest Savings opened its doors in Inglewood. Not long after, the Torrance office was added. Now-15 years and \$62,000,000 later-Southwest serves you and your neighbors from its two beautiful, new buildings. It's a grand April-long birthday party filled with free

a Philco

prizes awarded each Friday in the month-free bonus premiums-a free gift to each visitorand tasty refreshments served to all guests thru the 11th. Southwest Savings welcomes youand your family-and invites you to join in the festive celebration.

12" diameter. Westinghouse thermostat. Easy lift handle. Jewelled signal light heat indicator.

Army PFC Clyde E. Moses, 823 Sartori St., recently completed the four-week airborne course at The Infantry School. Fort Benning, Ga. Mose qualified as a parachut-

ist and received training in the

duties of a jumpmaster. He en-

tered the army in November,

of Supervisors renamed the Seaside Hospital in Long Beach to the Long Beach-County Chronic

Hospital Renamed On recommendation of Super visor Burton W. Chace, the Board

Disease Hospital.

LEGAL NOTICES

Dated March 30, 1960 H-O/S-7580

Torrance Press-S, April 4, 1960

GEORGE W. TURNAGE

OLIVER E. LOVELADY OHN WORLEY, Jr.

1956.

5-1515.

Boats, Sales and Sporting Goods Trailers Wanted Trailer Service Trailer Rentals Trailer Parks Tractor For Sale Clothing and Je Miscellaneous fol Swaps Miscellaneous Wanted

AUTOMOTIVE Trucks for Sale Trucks for Rent Trucks Wanted Motorcycles for Sale Motorcycles Wanted Auto Repairing Auto Parts Autoenairing 179 180 185 187 193 198 198

Wanted

Announcements '35 Years

Use Press classified ads to Dependable Service" buy, rent or sell. Phone DA (Bankamericards and International Cards Accepted)

ction

Automotive 'Shops' Brake Tune-Ups

"We Specialize" Terms 24200 Hawthorne Blvd., Walteria 457 S. Market, Inglewood FR 8-5271 OR 8-4844

CERTIFICATE OF BUSINESS FICTITIOUS FIRM NAME THE UNDERSIGNED does hereby cer-fify that he is conducting a General Building Contracting business at 1520 Torrance Boulevard, City of Torrance. California, County of Los Angeles, State of California, under the fictitious firm name of ABE ATLAS CONSTRUCTION and that said firm is composed of the following persons, whose names and ad-dresses are as follows, to-wit: Thomas W. Moore, 1520 Torrance Boulevard, Tor-rance, California. WITNESS his hand this 17th day of March, 1960. THOMAS W. MOORE Card of Thanks WILNESS HIS hand this lith day of March, 1960. THOMAS W. MOORE STATE OF CALIFORNIA COUNTY OF LOS ANGELES-ss ON THIS 17th day of March, A. D., 1960, before me, RUTH H. PETERSON, a Notary Public in and for said County and State, residing therein, duly com-missioned and worn, personally appear-ed Thomas W. Moore, Known to me to be the person whose name is subscribed to the within Instrument, and acknowl-edged to me that he executed the same. IN WITNESS WHEREOF, I have here-unto set my hand and affixed my of-ficial seal the day and year in this certificate first above written. BICTH H DETERSON

IN MEMORIAM HATTIE E. GRAY We wish to extend our heartfelt thanks and appreciation for the s of kindness, messages of sympathy and beautiful floral of-ferings received from our kind friends and neighbors during our sorrow in the loss of our dear wifs and mother. We especially want to thank the minister, Rev. Eldon Durham of the Presbyterian Church of Lomita and the pall-bearers. ERWIN N. GRAY AND FAMILY

(SEAL) RUTH H. PETERSON Notary Public in and for Said County and State My Commission Expires June 6, 1961 March 20, 27; April 8, 10, 1960 Income Tax

My Commission Expires June 6, 1961 S-March 20, 27; April 8, 10, 1960 NOTICE OF INTENDED SALE Under Section 3440 Civil Code of the State of California NOTICE IS HEREBY GIVEN That GEORGE W. TURNAGE, Vendor. whose address is 1904 Cabrillo, in the City of Torrance, County of Los Angeles, State of California, intends to sell to OLIVER E . LOVELADY and JOHN WORLEY JR., Vendee, who reside at 22308 Eastwood Court and \$20 Amspola, respectively, in the City of Torrance, County of Los Angeles, State of Cali-fornia, the following described personal property, to-wit: All stock in trade, fixtures, equipment and good will of a certain service sta-tion and garage business known as GEORGE'S SALES & SERVICE And lo-cated at 2172 Torrance Blvd., in the City of Torrance, County of Los Ange-les, State of California, and that a sale, transfer and assignment of the same will be made, and the consideration therefor will be paid at 12:00 o'clock P.M. on the 10th day of April, 1960, at the law offices of ROBERT HOLZ-HAUER, Attorney at Law, at 1950 Sun-ate INVA, in the City of Los Angeles, County of Los Angeles, State of California, Dated March 30, 1960 Income Tax

State and Federal A Tax Returns A Business and Individual

P. J. Smith Public Accountant

(10 years same locati Call Day or Evenings 7 Days

DA 4-4150

COMPLETE BOOKKEEPING SERVICE TORRANCE BOOKKEEPING & TAX SERVICE .

2220 Torrance Blvd., Torr. FA 8-6815

Building and Remodeling 42

CEMENT work all kinds, foundation, walks, patios, and drives. Call Bill, OS 5-0229. TILE CONTRACTOR, bathrooms &

kitchen, new or remodeled. RICHARD'S TILE, DA 9-5973.

