

Battalion Classified

Energy crisis inspires America's inventors

United Press International
Louisiana businessman Willie Klump dreams of the day when America's motorists will drive hundreds of thousands of miles without changing their motor oil because they bought Klump-manufactured oil filters stuffed with toilet paper.

In San Jose, Calif., Bill Posey envisions freeways jammed with people riding his motorized skateboards at speeds up to 35 miles an hour, while in Southern Pines, N.C., Peter Greenspan sees compressed air powered cars on the horizon.

In a more conventional vein in New York City, scores of Stuart Pivar's gasoline-powered Microcars are already in use as he begins production of an electric-powered model.

They are among thousands of inventors across the country who have answered the call in the battle against rising gasoline prices and dwindling oil supplies. Annually they submit tens of thousands of ideas to government and private industry officials, and occasionally, as in Pivar's case, some of their inventions find their way to the production line.

"The private inventor is probably the best source of ideas available," said Dave Mello, a project engineer in the Department of Energy's energy-related inventions program, headquartered in Washington.

In the six years the program has been in existence, Mello said, "The private inventor is probably the best source of ideas available," said Dave Mello, a project engineer in the Department of Energy's energy-related inventions program, headquartered in Washington.

The Energy Department has received 60,000 proposals from small inventors whose suggestions range from the impossible to the technically feasible.

"About half of them are good enough to warrant further evaluation," Mello said. The Energy Department then submits the ideas to the U.S. Bureau of Standards for evaluation.

Mello said "the winners" are then sent back to the Department of Energy to be considered for a federal grant. So far, the Bureau of Standards has recommended 128 ideas to the Energy Department for grant consideration.

Among those in the field of transportation that have been pursued are advanced carburetors, a new spark ignition system, and what Mello called an "optimizer," which would keep all of an automobile's systems running as efficiently as possible.

"Our goal is to give this little guy a chance at least to compete effectively," said Mello.

"One man cannot run an enterprise alone. What are needed are specialists in marketing, specialists in finance, and other areas. All of those go into making a successful product."

The U.S. Patent Office in Arlington, Va., also speeds up action on energy and environmentally related inventions.

Don Stocking, of the patent office's Heat and Power Engineering Examining Group, said there has been a boom in recent years in solar-related patent requests, while patent requests in other energy-related fields have remained stable.

Private corporations also offer another avenue for the private inventor to get his idea into production.

At the General Motors Technical Center at Warren, Mich., the new device section receives about 4,000 proposals each year from private individuals.

"Most of them are from your next door neighbor or mine, saying why don't you do something rather than saying how," said Jerry Rumbold, assistant director of the new device section. "Very, very few of these are way off the deep end, just enough to keep us lighthearted."

John Dobb, director of the new device section, said that in 1978, General Motors received 3,800 proposals from inventors.

"We purchased the rights to only two of them to investigate further and pursue, and in both cases they related to engine design features or power train features relating to fuel economy," said Dobb.

"We're seeing an awful lot of suggestions on fuel economy, emission control, that type of thing," Rumbold said. "The suggestions follow the media, what the public is concerned about."

Dobb said there are a few reasons why suggestions are coming down, ranging from being too costly to the inventor to do, to the fact that many are technically infeasible to cost to the manufacturer.

"For example, something that would solve one problem while creating others," said Dobb. "An idea to improve fuel economy, but that would increase emissions or result in poor reliability."

Among the more successful new breed of inventors is Pivar, who says his American Microcar in Farmingdale, N.Y., has almost about 1,000 Microcars powered moped engine. They are three-wheeled runabouts with a 1 1/2-horsepower engine. They get as much as 100 miles per gallon.

A Manhattan resident, Pivar designed his Microcar to meet his own needs in the city. It has a 35-mile range, weighs 300 pounds, seats two, operates at 20 miles per hour, is licensed in New York under moped regulations and operates on two batteries to automobile batteries.

"You just plug it in when you roll in the driveway and it recharges overnight."

As an energy saver, Pivar's Microcar costs a quarter of a cent a mile to run.

Pivar believes the electric Microcar to be used solely for short suburban and city trips, will become the "first practical, low-priced, mass-produced car," he said.

He said that "Bill Caperton call it 'mythical' issue and said it is determined by individual state legislatures. Caperton many misconceptions as it was in the 1980s."

"It is no longer a state matter to the power legislature. And court decisions on the matter are being ignored."

Stuart Pivar's electric Microcar, which sells for under \$2,000, has a 35-mile range, weighs 300 pounds, seats two, operates up to 20 miles per hour, and is licensed in New York under moped regulations and operates on two batteries similar to automobile batteries.

HELP WANTED

THE ORIGINAL TEAM CLEANING AGENCY
Wants reliable, energetic employees with phone and car for residential or commercial cleaning. \$3.30/hour and up, plus travel. HOME CARE SERVICES 846-1905 112ftn

HELP WANTED

Part-time position available at **FARMER'S MARKET SANDWICH SHOP** in Bryan. Hours Flexible. 822-6417. 123ftn

PETS

8-week old kittens. Call 693-3265. 1205

Free puppy - half Irish Setter, half Labrador. Call 693-0107. 123ftn

DRAFTING
With Leroy Set. About 20 hours/week. Call Dr. K. W. Brown 845-5251. Soil & Crop Sciences Bldg. Room 550. 123ftn

FRANK'S BAR & GRILL
Part-time cook needed. Apply in person. 913 Harvey Rd. 123ftn

FOR RENT

NEW EFFICIENCIES
\$159 month. One bedroom from \$180 month. All bills paid except electricity. No pets. Villa West Apartments, south of Villa Maria. Lorraine Peterson, manager. 822-7772. 177ftn

OFFSHORE DRILLING COMPANY

seeks a selected few self-starter type, field-oriented Engineers. For consideration, please call or write: Wes Lovas, Manager of Engineering, Atwood Oceanics, Inc. 10565 Katy Freeway, P.O. Box 19147, Houston, Texas 77024. Telephone No.: (713) 467-7900. Local interviews can be arranged. 1208

Now Taking Applications For Cashiers and Hostesses **APPLY IN PERSON ONLY** At Ken Martin's 1803 S. Texas next to Sears 79ftn

ONE GIRL
to share rent (\$61.25) plus Electricity of furnished Sevilla Apt. Both summer sessions only. Notify Miriam or Laurie 696-0709. 123ftn

DOMESTIC SERVICES

Full or part time team cleaning homes. Starting salary \$3.30/hour plus travel compensation. Judy Smeins Libby Vastano 693-1954

PART-TIME HELP WANTED. GRAPEVINE PERSONALITY.
696-3411. 120ftn

PRE-LEASING MH SPACES FOR STUDENTS

Over 400 spaces (many shaded) - Swimming pool - Club House - Laundry - Security Patrol
Can accommodate 12 R. to 14 R. homes. \$75/month; \$50 Deposit
Call or come by **WESTERN VILLAGE MOBILE HOME PARK** 2001 Beck St. Bryan 822-6912 11322

AUTO INSURANCE FOR AGGIES:
Call: George Webb Farmers Insurance Group 3400 S. College 823-8051

ALLEN Oldsmobile Cadillac Honda SALES - SERVICE

"Where satisfaction is standard equipment" 2401 Texas Ave. 779-3516

FOUND

Found on campus - 2 small female dogs; one blonde one tan. Call 693-3689. 123ftn

FOR RENT

UNIVERSITY ACRES

UNIVERSITY ACRES WICKES LBR. CO. FM 2018 WELLBORN ROAD TO WELLBORN KYLE FIELD

COUNTRY LIVING AT REASONABLE PRICES...
NOW TAKING APPLICATIONS FOR UPCOMING VACANCIES. 1 & 2 Bedroom Fourplexes and Duplexes. \$170 - \$225. Tenant pays electricity. \$50.00 Deposit. Nine (9) month minimum lease requirement.

Come by 1878 Greenfield Plaza in Bryan (located behind the new Post Oak Center off East 29th Street) or call 846-5796.

MANOR EAST 3 MANOR EAST MALL 823-8300

ONeal McNichol
Little Darlings
2:30, 5:10, 7:30, 9:45

Chapter Two
James Caan - Marsha Mason
2:30, 4:45, 7:10, 9:35

DUSTIN HOFFMAN Kramer vs. Kramer
7:35, 9:40

PLITT Southern Theaters

CINEMA I
An American Dream becomes a love story. 7:00, 9:45

CINEMA II
ROY SCHEIDER *HAT JAZZ*
7:30, 9:55

SKYWAY TWIN 822-3300

WEST 7:15-10:25

DRIVE-IN MASSACRE ALSO AT 8:50

C.B. HUSTLERS EAST 7:15-10:50

TAKE IT TO THE LIMIT ALSO AT 8:50

JOHN WAYNE IN **ROOSTER CO. BORN**

SUMMER RESIDENT CAMP JOB OPENINGS

For counselors; horseback director; registered nurse and unit directors. Located 35 miles southeast of Waco; near Rosebud; Texas. For information call: (713) 523-1631 or write: Greater Houston Council Campfire, Inc. 1110 Lovett Blvd. Houston, TX 77006 ATTN: Margie Bougham 123ftn

JOB OPPORTUNITY

Asset Management Representatives: Earn \$300 to \$1200 part-time. Full-time management opportunity also available. 696-1655. 1215

1980's: NEW DECADE

Time for new religious teachings, new social principles, new World order. 696-1626. 123ftn

JOB!

CRUISESHIPS/SAILING EXPEDITIONS/SAILING CAMPS. No experience. Good Pay. Summer Career. NATIONWIDE. WORLDWIDE! Send \$4.95 for APPLICATION/INFO. REFERRALS to CRUISEWORLD 127 Box 50129 Sacramento, CA 95860 113ftn

WANTED

Typing. Experienced, fast, accurate. All kinds. 822-0544...1ftn

Typing. Full time. Symbols. Notary Public. 823-7723...76ftn

MEN!

Summer counselor positions. Camp for handicapped. Dallas area. Salary, room, board, insurance. Call or write: Camp Soroptimist 7411 Hines Place Dallas, TX 75235 (214) 634-7500 12212

CASH FOR OLD GOLD

Class rings, wedding rings, worn out gold jewelry, coins, etc.
The Diamond Room Town & Country Shopping Center 3731 E. 29th St., Bryan 846-4708

RN'S GRIMES MEMORIAL HOSPITAL
210 S. JUDSON STREET NAVASOTA, TEXAS 77868

Has immediate and part-time openings available for 3-11 and 11-7 shifts in ICU and/or floor.

3-11 Staff Position - \$7.25 + 12.5c shift differential
3-11 ICU Position - \$7.50 + 12.5c shift differential
11-7 Staff Position - \$7.25 + 25c shift differential
11-7 ICU Position - \$7.50 + 25c shift differential

Time and 1/2 for overtime, hospital paid health and life insurance plus vacation, holiday and sick pay.
For information, call: (713) 825-6585.

SPECIAL NOTICE

Expert typing. Call Gloria. 693-8266, 779-3266. 11910

PROBLEM PREGNANCY? Free abortion counseling and referrals. Call (713) 779-2258...62ftn

SERVICES

Typing. 823-4579. 12135

Typing!! Reports, Dissertations, etc. ON THE DOUBLE. 331 University. 846-3755. 110ftn

TYPING. Prompt, professional. 823-5726. 113ftn

PREGNANCY TESTING

Counseling on all alternatives and birth control methods. Women's Referral Center, 3910 Old College Road. 846-8437

WANTED FAST FOOD PERSONNEL

3.15/hr.

*FREE FOOD
*PAID VACATIONS
*ROOM FOR ADVANCEMENT
*GOOD WORKING ENVIRONMENT
*NO EXPERIENCE NECESSARY

FULL OR PART TIME
11 a.m.-2 p.m.
7 p.m.-2 a.m.
5 p.m.-2 a.m.
APPLY IN PERSON
BETWEEN 9:30 a.m.-11:00 a.m.
501 S. TEXAS AVE.

LOST

LOST MY PUPPY!
She is half White Shepherd half Gold Lab. Lost last week near Manor East Mall. Answers to Chelsea. If found please call 779-3728. **REWARD!** 12215

FOR SALE

Malibu 74. Auto Power steering, brakes. 779-7156. 12215

75 Cutlass Salon - 20 mpg. AM/8-track, bucket seats. \$2500. Call 846-3195 after 5:30. 12115

For Sale: 1970 Buick LeSabre. Dependable full size transportation. Extra clean. \$500 or best offer. Call 693-0263. 12115

Irish Wolhound puppies - AKC - \$200.00. Box 248, Jewett, Texas 75846. 214-626-4658. 12115

Omega four channel AM/FM 8-track with phono. First \$100.00. 693-8456. 12015

Senior Boots, size 6 1/2 D. Excellent condition. Great price. 779-9670 after 6 pm. 12013

Suzuki GT250 - \$450.00 or best offer. 846-9240. 12015

FOR SALE: Fuzzbuster and Midland CB. Must sell to highest offer. Call 696-3137. 123ftn

Ladies' beautiful 14K Keepsake Wedding band. 693-6211. 11915

LOST

Gold bracelet with two sapphires and one diamond. "Very Sentimental". **REWARD** Call 693-7226. 12215

BOHNE MEMORIAL HOSPITAL

LABORATORY SUPERVISOR. Bohne Memorial Hospital needs full-time Medical Technologist (ASCP) for progressive 42-bed hospital. Salary negotiable. Benefits include: 1 free meal daily, paid sick, vacation, holiday, etc. and 75% medical insurance.

Contact Administrator.
BOHNE MEMORIAL HOSPITAL
P.O. Box 582 Brenham, TX 77833 713-836-6173 EOE 12213

1978 BMW 320i
11,000 miles, well cared for. Beautiful maroon paint, many extras. Fine investment in transportation. Call for appointment. \$10,500. 846-3876 12015

PINBALL MACHINE FOR SALE
Kismet Harem. Needs repair. \$100 Call 693-0946 12315

$\frac{dn(r,t)}{dt} =$

$\sum_{f2} v_2 \phi_2 + v_1 \sum_{f1} \phi_1 + \dots$

$-\sum_{r1} \phi_1 + D_1 \nabla^2 \phi_1$

JUNIORS — SENIORS — GRADS
IF THIS CATCHES YOUR EYE YOU MAY

QUALIFY TO EARN \$725 PER MONTH DURING YOUR LAST 12 MONTHS OF STUDY.

WE'RE LOOKING FOR PEOPLE WITH A YEAR OF CALCULUS AND PHYSICS TO TRAIN IN THE NUCLEAR POWER FIELD AFTER GRADUATION AND WE'RE WILLING TO PAY YOU A SALARY OF \$725 PER MONTH FOR UP TO 12 MONTHS DURING YOUR LAST YEAR IN SCHOOL FOR YOUR SERVICES. IF YOU HAVE DECENT GRADES, DON'T RULE YOURSELF OUT BECAUSE OF YOUR MAJOR. GO AHEAD SEE IF YOU CAN QUALIFY. CALL THE NUCLEAR PROGRAMS MANAGER AT (713) 224-1756 COLLECT OR WRITE:

NUCLEAR PROGRAMS MANAGER
1121 WALKER ST.
Houston, Texas 77002

WE'LL BE INTERVIEWING IN THE MSC ON 25-27 MARCH. STOP BY AND SEE US THERE OR ARRANGE AN INTERVIEW WITH YOUR PLACEMENT CENTER OFFICER.

INTERESTED IN NUCLEAR POWER? WE'LL BE INTERVIEWING FOR CIVIL ENGINEERING, ENGINEERING DUTY, SURFACE WARFARE, AVIATION MAINTENANCE, ETC. ALSO. SIGN UP TODAY FOR A U.S. NAVY INTERVIEW...

Crazy ★ Fla ★ Te

an cln an th

for trm kil

or ol

on to sht an be of

All stud for the these w the act dures f in 4 p.m. REQU

A&M when

Two Texas A injured Friday reared during for a promotion

Steve Stone, ing major, spr his horse veer Bobby Swanson major sufferer when he was th

Swanson was day in the Bee observation.

Executive Of members of

Cap ISSU

By LA

State senator Caperton call "mythical" issue and said it is det

individual se

In a Friday mence, Caperton many misconc

tricting as it was in the 1980s.

"It is no long

tricts are no long

when you roll in the driveway and it recharges overnight."

As an energy saver, Pivar's Microcar costs a quarter of a cent a mile to run.

Pivar believes the electric Microcar to be used solely for short suburban and city trips, will become the "first practical, low-priced, mass-produced car," he said.

He said that "Bill Caperton call it 'mythical' issue and said it is determined by individual state legislatures. Caperton many misconceptions as it was in the 1980s."

"It is no longer a state matter to the power legislature. And court decisions on the matter are being ignored."

Stuart Pivar's electric Microcar, which sells for under \$2,000, has a 35-mile range, weighs 300 pounds, seats two, operates up to 20 miles per hour, and is licensed in New York under moped regulations and operates on two batteries similar to automobile batteries.

There are others who attempt to market their inventions on their own.

In California, Posey has his Motoboard International to motorized skateboards. Klump sells his toilet-paper-oil filters for \$92.50.

SKYWAY TWIN 822-3300

WEST 7:15-10:25

DRIVE-IN MASSACRE ALSO AT 8:50

C.B. HUSTLERS EAST 7:15-10:50

TAKE IT TO THE LIMIT ALSO AT 8:50

JOHN WAYNE IN **ROOSTER CO. BORN**

Furnished & Efficiency, 1, Bedroom Appa 24 Hr. Profess Service Families Welc Pets permitted

Rental Saturday 10 693-1110