Researchers rebuild organs with inorganic material

University medical researchers are looking for ways to breath new life into failing bodies by building "hybrid" artificial organs with ceramics, plastics and metals.

Brown's "spare parts" department, as it is called on campus, is using inorganic materials as building blocks upon which an organ's living cell structure can thrive.

The researchers are also building organs from scratch, including an experimental lung constructed of 22 coils of teflon and thick, clear

Medicine traditionally had been looked at as the alleviation of pain or disability," explains Swissborn Dr. Pierre Galletti, director

Ballet

Jazz

107 Dowling

of Brown's research program.

"Next came preventive medicine. Now we are on the threshold of substitutive medicine: if you cannot cure it, get rid of it and replace it," Galletti said. Galletti, who is vice president

of the school's biology and medi-cine program, and fellow researchers at Brown believe hybrid organs — the bridging of living cell with man-made materials can be an alternative to total organ

replacement.
"We are using ceramics and metals which can be used as a scaffold' so tissues, or cells, can grow upon them. We are trying to match plastics with biology," Galletti said in a thick accent, brushing back a shock of his hair.

Exercise

693-0352

The marriage of man and metals but its use in humans is at least a is being tested in the department's decade away. The pancreas, laboratory at the Ivy League which has maintained insulin arteries. laboratory at the Ivy League school's Bio-Med Center. Sheep with artificial lungs and

dogs with implanted pancreas move around in their pens, appearing normal except for ban-

levels in rats and dogs, could be available for diabetics in less than

Work is also continuing on hybrid kidneys and livers, each endages covering surgical incisions. cased with a semi-permeable Calletti said the artificial lung has worked on a number of sheep, cells — to ward off rejection. And

The organs have "gone through several generations. We're eliminating our problems along the way," said Len Trudell, chief surgeon and lab director.

Perhaps the most difficult task of "creating" organs is deciding on the design, much of which is un-

charted waters in medical re-search. The shape of an original organ often provides no clue to the design of the man-made replace-

The artificial pancreas, for instance, resembles more a clear plastic horseshoe with tubing than the

Our job is to create things that don't exist. This is really the Buck

Rogers department," Trudell, who calls himselfth er" and Galletti the "m tualizer.

Galletti believes man could improve upon his

design.
"It's not obvious that knows best," Galletti said. says water-based life is things have to be?"

Dental magician turns patients into audience

BALTIMORE — Everyone has a horror story about a visit to the dentist, but Scott Sales, 7, can tell his friends about the day he saw a magic show from the dentist's

Scott paid a visit to the University of Maryland Dental School last week and there he met Craig box. Schneider, 24, of Silver Spring, Md., a third-year student who does a lot more than assist dentists white. at the outpatient clinic.

Schneider, you see, is a magician, a man who can change the look of fear on a child's face with

the snap of a magic box.

GLAIM - JUMPER

said to Scott. "Now, if I open this box and the rabbit is black, you haven't been brushing.'

Scott's eyes widened. Schneider pulled off the cover of the box and the rabbit was black. Schneider explained the principles of good brushing and gave

Scott another shot at the magic "Now look at the rabbit," Schneider said. The rabbit was

Scott giggled and told Schneider to turn the drawing over. Scott had it all figured out.

But when Schneider pulled off the back of the box Scott saw no-"I want to see if you've been thing but the tail of a white bunny. brushing your teeth," Schneider The black rabbit was gone and so

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his ability to combine the ancient arts of science and magic. Schneider takes both his dentistry

and his magic very seriously.
"When I was 12, I started reading magic books. I found I had a talent and started giving children's shows. Now I do both adult and children's magic," he said.

His demonstrations of adult magic — flashing coins, card tricks, floating dollar bills — leave his adult audiences with mouths agape. And Schneider's mind is as dazzling as his tricks.

In his senior year in high school, Schneider convinced his teachers to let him do independent study combining philosophy and psychology. He speaks with as much authority about Hume as he does about Houdini.

His undergraduate major was Latin and now he is in a five-year program with a double major in zoology and dentistry. He could easily make a living

doing magic, but said, "The life of an entertainer is too tough for me.

"I don't think I'd like being on the road all the time. So I can use my magic skills with patients, both

Chief of Protoco kicks up furor with royal curts

WASHINGTON — Chief of Protocol Lenore Annenber

kicked up a mini-furor with her knees — a curtsy to Prince Ch that has drawn gasps, protests and a State Department expla During the future king of England's visit to Washingt week, Annenberg greeted him from bended knees and before even rose the stir had begun.

The curtsy is the required gesture of Britishers to member their royal family. But some irate Yanks don't think it is approp in this part of the free world.

Local newspapers have been swamped the past few day letters from irate readers — prompting the State Department respond and the White House to grope for an reply. State Department spokesman David Passage told reporter

is "no established protocol or etiquette for how one should g

"I suppose a variety of things were considered, such as the hand, nodding the head, bowing at the waist, running up throwing one's arms around him and giving him a big kis." quipped.

"Mrs. Annenberg's reaction was a gesture of courtesy, nomal little fu

no less," he said in a serious tone. "It was a gesture without point sports ye implications. It was a gesture without political significance. It with a sm

Annenberg's husband, Walter Annenberg, was the U.S. and sador to Great Britain in the Nixon era.

Acting White House press secretary Larry Speakes, ask comment, said, "Not being a protocol expert or a fool..." His war.

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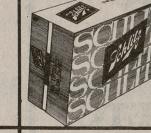












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Vegetable oil could replace diesel fuel in farm equipment

United Press International PEORIA, Ill. — If researchers at the Department of Agriculture's regional laboratory have their way, farmers of the future will beat the energy crisis by getting into the oil business.

The vegetable oil business, that

Tests are underway to determine if oil from soybeans, sunflowers, peanuts or cottonseed can fuel diesel-powered farm equip-ment. If the experiments prove fruitful, farmers may become energy self-sufficient.

"A farmer might be self-

A farmer might be selfsufficient by growing his sunflowers, soybeans or whatever, and then using it to replace diesel fuel," said Arthur W. Schwab, researcher at the Northern Regional

At the Southgate

Research Center, one of four showing up," said Event USDA labs which study new outlets for farm commodities.

The idea is not new. Vegetable oils were used on a small scale in early diesel engines until after World War II, when cheap and abundant petroleum took over the market

But now that fuel prices have been rising dramatically, researchers across the nation have begun studying vegetable oils along with other prospective alternative diesel engine fuels.

The USDA hopes its tests will help reach a goal of making all farmers energy self-sufficient by

"Short-term tests have been successful. It's on the longterm endurance tests that problems start

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factor. Direct injection are very efficient, but not go vegetable oils. Ours is the attempt to look at modifying fuel (vegetable oil) to work direct injection diesel engal til I was other researchers have Peveto a

vegetable oils work bettering combustion diesel engine. USDA researchers said mo mers own direct injectioned hard end and it is cheaper to modify C. Rollie than the engines.

The biggest problem overtime playing the support of the problem of the playing the playing the playing the playing the playing the problem of the playing the play forms a rubber-like gel.

If the engine continues after the crankcase oil has s fied, it could be ruined. It also tends to plug other particularly the engine, including the

USDA researchers sa will try to change the pl chemical properties of v oil by mixing it with others ances such as other oils or age Best Que turally produced alcohols.

The tests began earlier his and researchers hope to his solution within a year. Long Last year engine tests will be conduct wore my cooperation with several unit slacks. T ties, researchers said.

right now, but I'm very op there will be a solution t problems," Pryde said. Even if USDA research a trouble-free mixture fort there are other problems

Vegetable oil fuel is n pensive than diesel fuel chers said some vegetal would cost about twice as a current diesel fuel prices would become econ farmer if diesel fuel is in supply or if prices continu

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