Sun fun: Upland Hills experiments with solar energy projects

Story: ED BAS Photos: RANDY BORST

After the oil runs out and the last chunk of coal gets burned, the place to be is the Upland Hills Environmental Awareness Center in Oxford, Mich. If its workers are right, Upland Hills will continue humming along even if will continue humming along even if the lights start to dim for the rest of

us. At a lecture on energy and self suffi-ciency, Phil Moore of the Awareness Center said, "Technology alone wont" help us out of the energy crisis. It will take a whole educational process to show people the delicate web of life we live in."

Moore spoke at a public lecture series on the topic, "Is Man an Endan-gered Species?" Since then, Moore has been busy preaching-through-partici-pating his doctrine of energy aware-

Moore said the practice is spreading among those attending the Upland Hills workshops, and it could soon spread to local businesses. Solar col-lectors are marketed to a limited extent, while at places like Upland Hills the research continues.

A GEODESIC dome classroom at the Upland Hills Farm School, located near the Awareness Center, was built by volunteer labor.

"It has a natural finish," Moore said, "which is very difficult to get on a dome. Most are finished in fiber-glass, but ours is finished in cedar with four inches of urethane faam underneath, with air spaces in between. The dome saves energy through reduction of heat loss."

Upland Hills looks like a com-imation science fiction movie set and igaritic Tinker Toy set. Some projects are completed, some are waiting. Odds and ends of machine parts, bits giganti



Thursday, July 20, 1978

Moore made the solar still himself, but children and volunteer weekend help combined on a solar cocker proj-ect. "We make grilled cheese sand-wiches by wraphing the bread and cheese in tin foll and placing it right on the collector. We run soup through a pipe to heat it up."

The weekend mad scientists a la entrepreneurs are also working on something called a darius boyor a vertical axis wind machine. Actually, it's a modified windmill which uses cast-off, vertically-cut oil drums to called the wind. A generator on the bottom catches the energy, and less is lost than in conventional windmills that have the generator at the top.

of wood and metal, and lots of glass. characterize the center. "We have a solar still to make our own distilled water and this way we don't have to buy it. The solar still is always working. The painted back and heats up, evon painted back and heats up, center," Moore said. "We invite them out to take part. They can get here any time between 8 a.m. and 5 p.m. and volunteer their time. And we'll take them on a tour of the grounds."

The Awareness Center itself is still under construction, built by volunteers who have learned the ropes from Upland Hills in the past. It may be fin-ished as early as October.

(F)1D

Upland Hills hosts weekend work-shops with admission \$20 per work-shop. They continue through the end of Agusts on topics such as windmill con-struction, energy storage from wind power, wood heating, care and use of fireplaces, home insulation, solar energy and even tips on construction of an energy-efficient home.

A three-weekend series on solar energy can be taken individually or combined for a \$55 fee. Weekend guests are invited to camp out on the grounds. The workshops are limited to 40 persons.

The school and Awareness Center are at 2875 Indian Lake Road in Oxford. The telephone number is 628-5116.

4. 1 6

THE UPLAND Hills school has so many collectors that on a bright and sumy day recently they had to be cov-ered. "We really don't need all that energy," Moore said. "Our information is free to our neighbors," Moore said. "A lot of people drop by to see what we've been up to, and we exchange ideas. Some people are really starting to do some serious work." Like any good business, Upland Hills keeps its labor costs low. "A lot of people call with questions about our



A solar cooker prepares grilled cheese sandwiches and even heats soup for Upland Hills energy

Lampers take work seriously Putting on a right shade

By SUSAN TAUBER

Lamp shades are unobuilt of a room's decor. As long as they fit the lamp properly, are the fight size and color, no one really notices them, but when something about the shade isn't right, it's as obvious as a crooked picture on a wall. With fewer stores stocking the wide variety of lamp shades, it's more diffi-cult for consumers to buy what they want when original lamp shades.

With tewer stores stocking the wide variety of lamp shades, it's more diffi-cult for consumers to buy what they want when original lamp shades become shabby. And because of the many variations, they have just as hard a time deciding which lamp shade to buy.

many variations, they have just as hard a time deciding which lamp shade to buy. Tim Beuthien and Andre Peneau are in business to help people get the right shades. Beuthien, owner and operator of Village Lamp Stop, and his appren-tice Peneau, are lamp consolissents. They know the importance of match-ing the right shade with a lamp. If the right is shade isn't avallable, they'll make one for their customer. "There are three popular styles of hamp shades right now," said Beau-thien. We buy hand sewn washable shades from New York and make the bard back and vinyl pleated lamp shades in standard sizes. But for the person who wants something that isn't a standard style or size, we'll make that to."

person who wants something that isn't a standard style or size, we'll make that too." Beuthien has been in the lamp busi-owners of Lampcard in Royal Oak, Village Lamp Stop at 135 Romeo, Nochester, was a branch store. After managing the Detroit factory where lamp bande were made, he sold on the shore of the business to his nochester. We don't have the lass hown in Nochester. "We don't have the lass the sig-ned of building. Beuthien keeps the "who's who'' of lamp shades. "We don't have the less expensive who conset, which are filmer retardant, and conset, which are filmer retardant, and conset, which are filmer retardant, and nake trimmings out of matching their, not out of binding material like the trim cho the shade instead of pulling it. You can look for this by change department, Beuthien is teach-ing repeau, a former schools, con-sing whe shades for lamp shops activer, how to make shades. "We can make shades for lamp shops activer, how the schools gor lamp shops and will as our own place. We can shade doesn't seem difficult, there's to the ther the change or own frames the shade shops for lamp shops and will as our own place. We can shade doesn't seem difficult, there's to it than the schools gor lamp shops activer, how the change at of making a shade doesn't seem difficult, there's the trim nuess the eye:

THE FIRST STEP is laying out the material onto a pattern. If the shade is

a standard size, the pattern is hanging on a clothes rack in a back room. Oth-erwise, Peneau has to custom make a pattern. Then he cust the fabric, rolls it onto the frame and trims it. "There's a lot to learn about it," explained Peneau. Each fabric, from special backed linen ready to be cut to fabric the cus-tomer brings in that must be fami-nated, has its own characteristics. Each shape requires a different tech-nique.

Each shape requires a summary state of the one-man production But before the one-man production line starts, the men and the customer have to decide on the shape, size, color, amount of light the shade will reveal and the type of fitting required.

"Most people don't know how to suit ? a shade to a larap." Beauthien said. "You have to consider the diameter of the top and bottom of the shade, its heighth, the way the wather fits on the reading lamp, you'll be larap. If it's a reading lamp, you'll be larap. If it's a reading lamp, you'll be larap. If it's a large to the state of the state of the through more light using shade to be through more light using shade. It is a state of the state of the state of the pattern for a new shade from the old one or suggest a different shade. "We can tell when a shade looks right or wrong." Beuthien added. "If more than one shade suits a lamp, _____ the we laxe the final decision up to the customer."



Andre Peneau believes it's important to match a lamp with the right shade. (Staff photo by Doug Bauman)





campus in Warren.