## Solar hometested

Living in a laboratory sounds cold and uncom-fortable. But not if the "lab" is a 2½ story, three-bedroom house comfortably warmed by the sun

the sun.
Such a "live-in labora-

Such a "live-in labora-tory" has been built on the campus of the Ro-chester institute of Tech-nology, RIT. It is a solar energy re-search project jointly sponsored by RIT, the Rochester Gas and Elec-tric Corp., and the Ro-chester Home Builders Association. It is also home to a faculty family of four.

of four.

The house is a prototype for use of solar heat
in Western New York, an
area with bitter cold winters and abundant cloud cover.

cloud cover.

"Solar energy tends to be seen by the public as practical only in the sunbelt," said Carolyn Rankin, RIT spokesper-

"The Energy House will test the feasibility of solar heat for cold, cloudy areas like ours where efficient heating systems are really needed."

needed."
Original plans for the house were developed by Dr. Paul Wojciechowski of RIT's mechanical engineering department. He researched historical mechanical control of the control of t researched historical weather data for the area, and determined that if a house were built to take maximum advantage of available sunshine, half of its heat and hot water needs could be met by solar

could be met by solar energy.

A year's operation of Energy House supports the analysis. The project may even exceed expec-tations.

"In the first week of

tations.
"In the first week of October '78, despite sea"In the first week of October '78, despite seasonally cold weather, all of the house's space heating requirements were met by solar heat collectde through its large, southern-exposure of through its large, southern-exposure indication of the sun's practical heating power. In designing the house readily-available, energy-efficient building materials and techniques. Type, size and location of windows figured significantly in the place of the seapassive work of the season of the season of the house with light and trap the heat of the winter sun. A wide expanse of windows figured significantly in the place of the season of the house with light and trap the heat of the winter sun. A wide expanse of windows fills the south wall. Lesser glass areas face east, west and north. All windows are Andersen Pera-Shield casements with triple glazing.

The windows are also

towshield discussed recovered to the control of the

The house has 38 solar The house has 38 solar collectors on the sharply-pitched roof to catch as much winter sun as possible. There are two solar systems — one for space heating, the other for hot water. Electric heat provides a hackun system

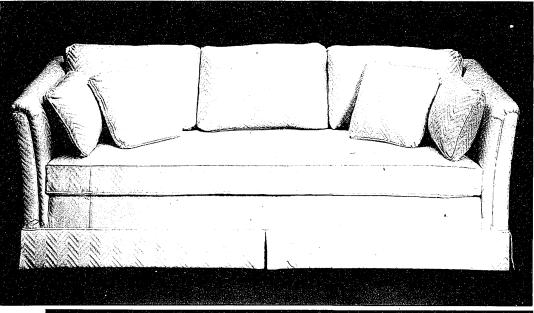
water. Electric heat provides a back-up system.

To facilitate heat flow through the nine-rom house, interior wall space was minimized and rooms laid out around a central atrium-stairwell. It makes a distinctive architectural feature. The house has optimum insulation.

house has optimum Insu-lation, magnetically-scaled doors, an energy-efficient fire-place, and tight construction.

There was no stinting on visual appeal. Exteri-re colors are a pleasing blend of earthtones— Perma-Shield vindows in Terratone color, dark autheolored doors, and warm wood siding, all in all, a house that works with rather than against nature.

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