

Architects devise energy conservation proposals

Architects doing research for the Governor's Energy Advisory Council have come up with planning and practical proposals for conserving energy.

Dean Raymond D. Reed of the College of Architecture and Environmental Design said a more environmentally minded type of architecture is gaining acceptance,

replacing the glass box and bomb shelter styles of the 1950's and 60's.

"In the 40's and 50's architecture was open with lots of glass, but with the advent of the bomb scare, architecture went to bunker type buildings," mused Reed, who serves as project head. "It reflected the change in attitude of the country."

"The energy problem is forcing us to be more realistic in design," he added. "Now we have to create a sustainable human and natural environment."

"I see regional architecture in the future, designed to take advantage of the climate and ecology of the locale," Reed continued. "I also expect a shift in population from the large metropolitan areas to smaller cities where services are easier to get to, also a move to milder climates—to the southern states. I believe Texas will be high on the list for this influx of population."

The environmentally-minded type of architecture incorporate many of the suggestions that were made in the TAMU report that will

add the state in determining policies as the energy crisis progresses. Some of the recommendations to the governor include:

- Multifamily housing (row houses, apartments, condominiums) are less expensive to heat and cool than single detached houses. The single-family dwelling wastes the greatest amount of energy.

- An energy budget should be established that would show expected monthly utility bills per square foot of residence so a homeowner could

establish goals. Higher rates could be charged for people who exceed their energy budget. Energies derived from other sources than fossil fuels (wind, solar, geothermal) would not be counted in the energy budget. This would stimulate innovative developments and research in new energy sources.

- Estimated energy consumption should be provided by home builders. This would permit comparative shopping by home buyers seeking an energy-efficient dwelling.
- Use of energy derived from

scarce fuels in new construction should be conserved.

- Natural ventilation can be used to reduce the reliance upon mechanical environmental control systems.

- Audits would be made of commercial buildings to determine possible energy conservation.

- Reduction in lighting in commercial buildings offers the greatest potential for conservation.

- Turning off a building's mechanical system during unoccupied hours could result in significant

energy savings.

- Community energy use is a most parallel with community income. This indicates that conservation is based on what the community can afford and has little to do with energy needs.

- "We also need to emphasize the walking community" and minimize the need for car transportation, Dean Reed explained.

The team's research consists of one of 41 projects to determine future energy policy for the State of Texas.

Anti-cancer researcher will speak

A Michigan State University biophysics professor credited with discovering new anti-cancer agents will speak at a Chemistry Department colloquium Thursday.

Dr. Barnett Rosenberg will discuss "Platinum Coordination Complexes in Cancer Chemotherapy" at 4 p.m. in room 229 of the Chemistry Building.

Dr. Minoru Tsutsui, who is coordinating arrangements for Dr. Rosenberg's visit, noted the talk is open to all interested persons.

The presentation will deal with the new class of platinum-pyrimidine complexes believed to possess improved anti-tumor properties and lower toxicities.

"Because of their high solubility and specificity of action with nucleic acids, they are also usable as electron dense cytological stains for electron microscopy," Dr. Tsutsui explained. "These stains produced evidence that tumor cells contain DNA on the cell surface, while normal cells do not."

He said this discovery has "interesting consequences with regard to understanding cancer at the molecular level and suggests a new rational for chemotherapy."

Dr. Rosenberg has been at Michigan State since 1961 when he joined with the late Prof. Leroy G. Augenstein to begin a graduate-level biophysics department.

Earlier in his career Dr. Rosenberg was a member of the physics faculty at New York University and previously was a senior research physicist for Westinghouse. He earned his B.S. at Brooklyn College of City University of New York and M.S. and Ph.D. at NYU. He studied abroad at the Federal Institute of Technology in Zurich and conducted a year of post-doctoral work at NYU's Institute for Mathematical Sciences.

Library operates 'til 2 a.m.

A quiet, late-hour place to study is available to students.

The University Library will remain open until 2 a.m., regular closing time, during final examination week, December 16-20. Library doors will open as usual, at 7:30 a.m.

The Shuttle Bus Service will not run during the holidays. With the 5:45 p.m. run on Friday, December 20, routes will be discontinued until 7 a.m. Monday, January 20.

Reps pass RR loan bill

WASHINGTON (AP) — The House passed a bill Tuesday authorizing \$2 billion in federally backed loans for railroads.

The vote was 377-15. The loans would help the railroads improve their physical plants and tracks and increase their freight-car fleets.

In addition, the bill would make regulatory revisions for all kinds of surface transportation including rails, trucks and barges.

It also would ban any discriminatory state or local taxation of transit property, giving governments three years in which to equalize their tax structures. An attempt to modify or delete this section failed 314-79.

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<p>6 FOOT PRESTO PINE TREE</p> <p>Already Assembled Pine On Stand</p> <p>9⁸⁸</p>	<p>MOUNTAIN KING 6½ Foot Tree 29⁹⁵</p> <p>CANADIAN PINE 6½ Foot 14⁸⁸</p> <p>4-FT. PINE TREE Full Branch 6⁹⁵</p> <p>6½-FT. DELUXE PINE 24⁹⁹</p> <p>2-FT. TABLE TREE 1⁵⁹</p>	<p>DELUXE CHRISTMAS TREE</p> <p>7 Foot Pine Full Branch</p> <p>16⁸⁸</p>			