

# Pope's adultery remark stirs ire

United Press International  
VATICAN CITY — Italian commentators have reacted with anger at Pope John Paul II's statement that a man is guilty of "adultery in the heart" if he lusts for his wife.

The pontiff injected the current bishop's synod, the meeting to discuss the problems of modern family life, with its latest controversy when he told a weekly audience Wednesday that a man who lusts for any woman — even his wife — is committing a form of adultery.

In Roman Catholic Italy, the reaction to the pope's statement was

harsh and reached a peak in Saturday's newspapers.

A commentator for the Turin newspaper La Stampa said the pope was confusing "erotism with hedonism" and appeared to be advocating castration for Catholic males.

"By making that statement, the pope is trying to make Italy's abortion law useless by stopping conception altogether," wrote Italian feminist Pia Candinas in the Rome newspaper Il Messaggero.

Not all of the criticism was harsh. Catholic writers defended the pope's

remarks by arguing that reporters had taken them out of context.

Alberto Virgilio of the pro-Catholic newspaper Il Tempo said the pope was arguing that lust is sinful and that the marital act performed outside the context of love amounted to a form of adultery in the "theological" sense of the word.

John Paul, in the remark that stirred the controversy, said:

"Adultery in the heart is committed not only because a man looks in a certain way at a woman who is not his wife, but precisely because he is looking at a woman that way. Even if he were to look that way at the woman who is his wife, he would be committing the same adultery in the heart."

His statement carried particular significance at a time when the Fifth World Synod of Bishops is meeting in the Vatican to discuss the impact of modern life and changing sexual mores on the Christian family.

The synod, which has just ended the first two weeks of its month-long deliberations, also has aroused hostile comment in Italy because of its apparent determination to reinforce traditional Catholic teaching on such issues as birth control, abortion and divorce.

Even American bishops, who have appealed for greater understanding for Catholics disobeying the Vatican ban on artificial birth control, have made it clear they do not intend to challenge church teaching.

One newspaper, La Repubblica of Rome, satirized the synod Wednesday with two pages of cartoons lampooning the idea of 216 celibate bishops discussing the problems of sexuality and marriage.

The bishops promptly issued a statement expressing their "strong disapproval at the publishing of two pages and texts of obscene, blasphemous and desecrating drawings."

# Cosmonauts come home safely with record after 185 days

United Press International  
MOSCOW — The most traveled spacemen in history returned safely to Earth Saturday after 185 days and 72 million miles spent in orbit aboard the Salyut-6 space station.

Soviet cosmonauts Lt. Col. Leonid Popov, the 34-year-old rookie flight commander, and Valery Ryumin, his 40-year-old engineer, landed in Kazakhstan in the Soviet Union at 4:50 a.m. CDT to a hero's welcome, the official Tass news agency said.

The cosmonauts received greetings from the Presidium of the Supreme Soviet, or parliament, and the Council of Ministers of the U.S.S.R., congratulating them on their "comprehensive skill, profound knowledge of the elaborate equipment, high moral qualities, courage and heroism," Tass said.

Both men will be given the Order of Lenin, the country's highest honor, and Popov will be made a Hero of

Besides repair and maintenance work, the cosmonauts carried geophysical research including photographs of the Soviet Union and other Socialist countries, said. They gathered data on natural resources and seasonal changes on land and sea for use in agriculture and exploitation of the ocean.

They also studied their own bodies for the effects of weightlessness on the cardiovascular system, and worked out on a specially designed exercise bicycle, called a "velocimeter."

They were joined by four visiting crews who flew up from a time both to help with experiments and, more importantly, to relieve the monotony for the main crew. Visitors included cosmonauts from Hungary, Vietnam and Cuba trained under the Soviet Leningrad space program.

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# Nobel work aids transplants

United Press International  
STOCKHOLM — Two Americans and one Frenchman, whose work has made organ transplants safer and helped unravel the mysteries of cancer, share the 1980 Nobel Prize for Medicine.

George Davis Snell and Bacuj Benacerraf of the United States and Jean Dausset of France were awarded the \$215,000 prize by the Karolinska Institute Friday for their separate work in the field of immunology.

The 54th and 55th U.S. medicine laureates and the seventh French winner were cited by the Institute for their discoveries concerning "genetically determined structures on the cell surface that regulate immunological reactions."

Knowledge of genetic regulation of the body's immune response makes it possible to explain the different ways people respond to infection, the institute said.

It also helps explain what eliminates cancer cells in some circumstances but not in others.

Of great practical significance is the application of their research to tissue transplants, the Nobel citation said.

In addition, their work sheds light on the relation between a person's genetic constitution and hereditary diseases, which experts say could have a far-reaching impact on treatment of such diseases as rheumatoid arthritis, multiple sclerosis, juvenile diabetes and psoriasis.

Dausset, 63, said Friday in Paris the work done by his group and the two American doctors in "tissue compatibility" has extremely important effects in organ transplant and in the search for ways to combat ailments that attack cells, such as cancer.

He has done much of his work at

Paris University's St. Louis Hospital Center.

Snell, 76, has worked at the Laboratories in Bar Harbor, Maine since 1935. He has won major honors by the National Cancer Institute and was elected in 1970 to U.S. Academy of Sciences.

Benacerraf, 59, was born in Caracas, Venezuela, but has been a citizen since 1943. He has taught cancer research at Harvard University for four years and has been engaged in immunological research since early 1960s.

"I have been working on and the immune system — how we come capable of defending you against foreign invaders," he explained.

Since July 1 Benacerraf has been President of the Sydney Farber Cancer Institute, one of 21 federal designated cancer centers in the United States.

They were joined by four visiting crews who flew up from a time both to help with experiments and, more importantly, to relieve the monotony for the main crew. Visitors included cosmonauts from Hungary, Vietnam and Cuba trained under the Soviet Leningrad space program.

# Economics called the key now

# Sunbelt may go solar sooner

United Press International  
NEW YORK — Large power plants will be producing electricity directly from the sun's rays within 20 years, and some Sunbelt homes will generate part of their own power needs even sooner than that, says Dr. Daniel R. Müss, of Westinghouse Electric Corp.

Solar electrical technology is known; it is now a matter of economics, said Müss, research director for the Westinghouse Public Systems Co.

He said Westinghouse researchers believe solar electrical systems will move from the laboratory into the marketplace on a limited commercial basis in this decade.

In 1978, Congress appropriated \$1.5 billion to be spent over 10 years on photovoltaic research. Müss said Westinghouse's recent development of a low-cost, high-efficiency dendritic

web technology for making solar panels from a continuously produced, single-crystal photovoltaic ribbon was the most important step in this technology to date.

Pacific Gas & Electric Co. and Southern California Edison already are at work developing a 50-kilowatt pilot system and are considering a 25,000-kilowatt plant using the new Westinghouse solar cell technology, Müss said.

Previous solar energy techniques did not appear to offer much hope of economy in scale, but dendritic web technology, Müss said, does raise the likelihood of very large, economical plants.

Müss said, however, many homes in the Sunbelt will get their daytime electricity from roof-mounted photovoltaic solar panels before any large-scale plants are operating.

Even if such a residential photovoltaic system cost \$15,000 in 1980, it would pay for itself in the relatively short time in climatic regions where heavy year-round air conditioning is a must, Müss said.

Even though the major solar energy spawdwerk has been accomplished, Müss said, the logistical and material costs of development are formidable. "Incredible amounts of copper and aluminum will be needed in the process," he explained.

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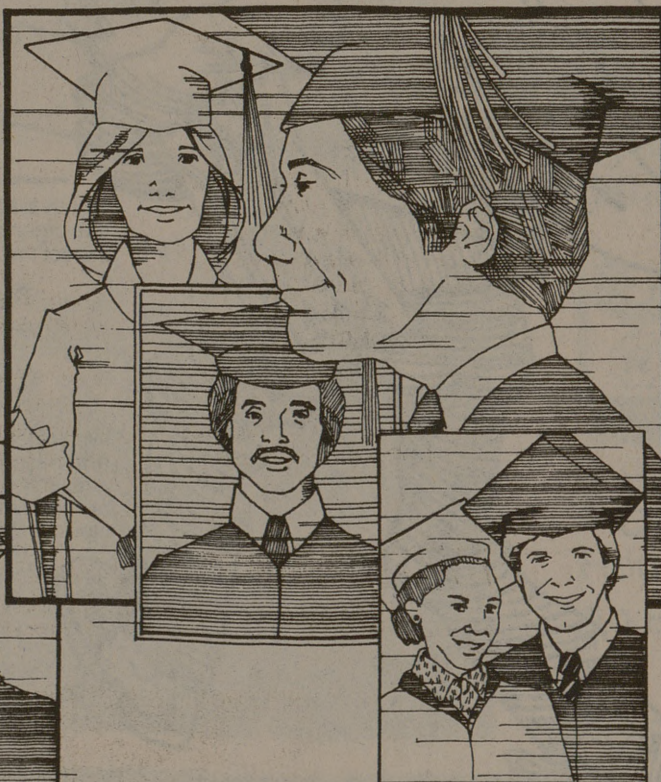
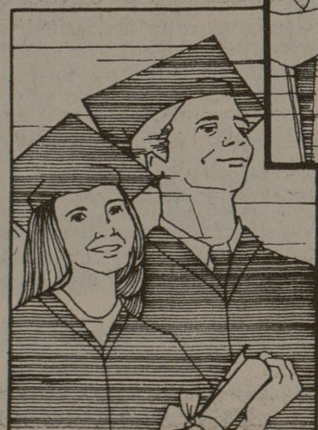
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