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**Mrs. William McClintock,** Mrs. Fred Alban and Mrs. Lowell Cree were hostesses Friday afternoon at the Cree home for an informal tea. The afternoon was spent visiting and refreshments were served. Attending were Mrs. Lloyd Sletto and Mrs. Edward Cruson of Lyons, Mrs. John Wehri and Mrs. Edith Kiehl of Salem, Mrs. Clyde Golden, Mrs. Ralph Budlong, Mrs. Cloyd Cox, Mrs. Paula Smith and Douglas, Anthony Cree, Mrs. J. C. Dickinson, Mrs. William McClintock, Mrs. Fred Alban and Danelle of Sublimity and Mrs. Lowell Cree.

**Leroy Golden** underwent surgery at the Salem Memorial Hospital last Monday and returned to his home Wednesday where he is convalescing.

**Opie Clark,** who has been living with his brother-in-law and sister for several months, returned to his home at Billings, Mont. where he will be employed for awhile before returning to Mill City.

**Dr. John Nevin of Tigard** will be the guest pastor at the Presbyterian Church next Sunday, March 3, with Rev. Luther Kurtz of Woodburn at a later date.

**Larry Doble** was moved from the Santiam Memorial Hospital last Monday to the Salem General Hospital and underwent major surgery on Wednesday. He was placed in the intensive care unit and on Sunday underwent emergency surgery. He is still in the intensive care unit.

**Mr. and Mrs. Lowell Cree** and J. C. Dickinson were dinner guests Sunday in Oregon City at the home of Mr. and Mrs. Gordon McMorris. They went to celebrate Mrs. McMorris's birthday which will be Wednesday, Feb. 27. Due to the gas shortage, the McMorris's were unable to make the trip to Mill City.

**Residents of S. W. Linn** Place, located between the railroad track and the river on the Linn County side of town, were surprised about 7:00 Sunday evening to see three deer, a doe and possibly her twin fawns from last year, browsing along the river bank. The deer seemed so tame, in fact, that when Mrs. Stanley Chance stepped out into her back yard, one of them climbed up the slope to within about 20 feet of her. Witnesses thought it probably would have gone closer if she had had any food handy.

## Youth Group Attends Retreat

by Vern Golden

The youth groups of the Mill City First Christian Church, and the Community Christian Church of McMinnville had an enjoyable time of fun and fellowship this weekend. Both groups attended a youth retreat from Friday, Feb. 22, to Sunday, Feb. 24.

The large group, which totaled about 45 people from both Mill City and McMinnville, stayed at Harmony Lodge in Lincoln City. The lodge normally holds 35 or so, so room had to be made.

Leroy Sheperd, a one-time Mill City boy, came up from Northwest Christian College in Eugene to help teach one of the Sunday school classes. Other NCC students who taught were, Mike Bernett and Judy Horton.

Featured speaker for the Sunday worship service was Doug Fisher of McMinnville. Fisher was called in to replace Jerry Nelson of Salem, who was unable to attend due to illness.

All had a wonderful weekend, full of blessings, and were reluctant to return home.

## Acacia Assembly Makes Tray Favors

Acacia Assembly #40, International Order of Rainbow for Girls made tray favors for the Santiam Memorial Hospital following their last meeting. The tray favors are for St. Patrick's Day.

Refreshments were served by Cindy Bishop of Scio and Nancy Plane from Aumsville. Attending from Mill City were Sue McClintock and Mrs. William McClintock.

## Mill City Weather

Date	Hi	Lo	Pcp.
Feb. 17	48	38	0.19
Feb. 18	49	38	1.32
Feb. 19	51	37	0.90
Feb. 20	49	31	0.06
Feb. 21	44	39	0.36
Feb. 22	44	31	0.28
Feb. 23	49	30	0.08
Total Pcp. for the week	3.19		
Snow Feb. 21 and 22			

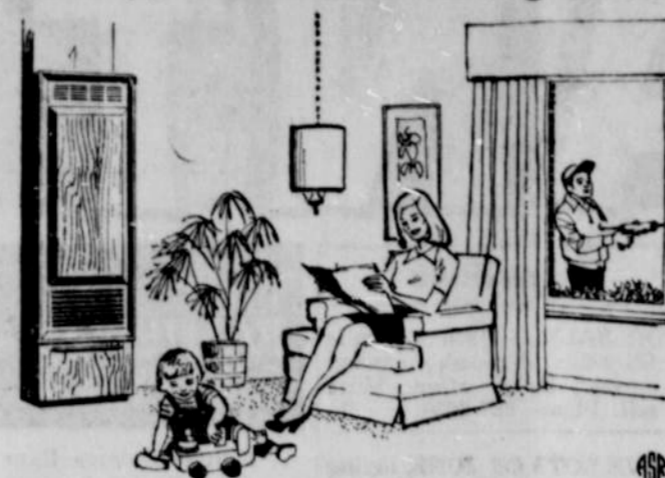
**Dick Blakely** is reported to be in serious condition at Salem Memorial Hospital where he was taken early Monday morning due to a coronary attack. At last report his condition was steady.

**Mrs. Vee Golden** received word early Monday morning of the death of her brother, Lofton Cook of Cove, Ark. He passed away Sunday night.

**Athel Savage,** who underwent hip replacement surgery at Salem Memorial Hospital, was brought home last Friday and is reported to be recovering satisfactorily. He was hospitalized for two weeks.

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## Energy Conservation Save \$\$ On Home Heating Costs



Enjoy indoor comfort during the heating season while saving fuel and reducing heating bills. For most families, heating is the largest cost item in operating a home. Users of liquefied petroleum gas for home heating—or propane as it's also called—can easily save fuel and heating dollars by doing some practical home winterizing.

The best way to prevent winter cold from robbing your heating budget is to take steps to keep more heat inside your home. Warm air leaking to the outdoors and cold air filtering in can cause your heating costs to go up as much as 30 percent!

Start your LP-gas saving campaign by searching out loose-fitting windows and doors, and other cracks where heat can escape. Then apply weatherstripping and caulking where needed. These are simple and inexpensive remedies.

Storm windows and doors will pay for themselves in lower heating costs within 10 years, even less where winters are severe. The air barrier provided by properly fitting storm windows will cut in half heat needlessly lost through windows in your house. Leave storm windows on in summer if your home is air-conditioned.

They effectively keep more cool air in your home in summer just as they prevent heat loss in winter. If your home lacks overhead and sidewall insulation, this too may be a wise investment in greater comfort and lowering heating costs. Consult your propane-gas dealer or heating contractor for advice.

You can save LP-gas by setting the thermostat at the desired temperature and leaving it there. Constant thermostat changing wastes fuel and adds nothing to your comfort. And don't overheat! Heating costs go up significantly for every degree over 70°.

The operating efficiency of your gas heating equipment is highly important in saving fuel and reducing heating costs. It pays to have your heating equipment inspected annually by a trained service professional.

## Sewerless Society In Near Future

by Joyce Presler

An article appeared in the Los Angeles Times on Sunday, July 22, 1973 entitled "A Sewerless Society Is Starting to Take Shape." It was written by Harold H. Leich and first appeared in the Washington Post. It gives readers a different viewpoint other than the traditional sewage disposal plants. Following are excerpts from the aforementioned article.

The environmental movement in this country devotes much effort to campaigns for picking up old bottles and putting bricks in toilet tanks to save a little water yet neglects a festering environmental problem of modern society—the fact that we flush our body waste into the public water supply and then spend billions in futile attempts to restore the water to its original condition.

The antiquated Victorian "water closet"—now in modern dress-still sits there gurgling, hissing and polluting almost a century after immortalizing its British creator, Thomas Crapper. In its day the symbol of modern sanitation and progress, it accounts for some 45% of domestic water use and its output befalls waterways from the Potomac to the Mediterranean.

Even though a large number of U. S. communities have sewer systems and treatment plants, their water still is not being purified as it should. A task force headed by Ralph Nader found that after 15 years of research, the level of filth has not been reduced in a single major body of water.

It is scientifically possible, but not practical, to restore drinking water to its original condition once it has been used to transport body waste. Other factors, including equipment breakdowns, sludge disposal, overloaded treatment plants and water-borne diseases add to the problem of water purification.

The construction of homes, office buildings, and factories is coming to a halt in many places because sanitation authorities are refusing to extend sewer lines that drain into already overburdened treatment plants.

The cost of water cleanup for all U. S. communities is estimated by a top EPA official at \$38 billion and even then the eutrophication (the natural aging process) problem will remain, not to stress the esthetic problem of drinking water that has already passed through three or four toilets upstream.

All these factors clearly point to a conclusion that present methods of human waste disposal are approaching a dead end.

The question is: Can modern technology devise a better method of sewage disposal than using scarce and expensive drinking water to transport human waste from the bathroom to the river or treatment plant?

The answer is "yes". Lamere Industries of Wallworth, Wis., makes and sells the Destolet dry toilet, for about \$400. A combined toilet and incinerator fired by gas—either piped or bottled—some 30,000 have already been installed in summer cottages, houseboats and other places where connections are not possible.

The Destolet incinerators are adjusted to burn the waste to an inorganic ash. Inevitably, there is some release of gas to the air, but not so much as to reduce water pollution at the expense of increased air pollution. As air pollution becomes more stringent, further technical progress may result; Lamere is working on a unit that will discharge nothing but carbon dioxide and water vapor to the air.

Another unit, this one self-contained and called Aqua-sans, has been developed by the space division of Chrysler Corp. in New Orleans and is designed to dispose of body wastes from a ship's crew of 200 men, without dumping anything overboard. (As a result of new legislation, all ships operating in U. S. inland waters will require some such treatment system.)

The Aqua-sans device is a



closed-loop system which operates by using a light oil as a flushing fluid instead of water. A central unit provides for gravity separation of the body wastes from the oil, purifies the oil, and recirculates it to the flush toilets. Wastes are burned in a special two-stage incinerator that is smokeless and odorless, and only a sterile ash remains.

One of the most promising devices for waterless disposal of human wastes comes from Sweden. Rikard Lindstrom installed a self-designed composting unit about 20 years ago to prevent sewage from draining onto his bathing beach on the Baltic Sea. When the unit proved successful, neighbors asked to have the devices installed and then more units were made until about 1,000 are now in use in Scandinavia, chiefly in vacation homes.

Lindstrom and his son, Carl, have arranged for a concern in Oslo, the Andstor Co., to make and sell the units. A thousand units will be installed this year under the name of Multrum and plans are going for larger-scale manufacture.

The Lindstroms recently signed a contract allowing the Swiss government to make and install Multrum units in military camps and negotiations are under way for distribution of the system in the United States.

The Multrum unit consists of a large fiberglass container, about 10 feet long, which is installed on a slant in the basement of a single-family dwelling. From the floor above, two vertical chutes lead into the container. One of these, in the bathroom, holds the toilet seat and lid; the second chute, in the kitchen, is for garbage.

At the time of installation, a layer of garden soil and grass clippings is placed on the slanting floor of the container. As the wastes accumulate under the two chutes, composting begins and a temperature of body heat is attained. This moderate warmth causes water in the material to evaporate and rise into a vent pipe which goes up through the roof or into a chimney.

The unit needs no attention for the first two years while the composting wastes are slowly drying out and moving down to the lower end of the slanting container. Then the householder opens a hatch at the lower end of the slanting container and finds a pile of dry, black, odorless humus which represents 5% by volume, of the wastes that were deposited many months before.

Tests by health authorities have found no harmful bacteria or viruses in the humus, which is safe to use as a garden fertilizer. Humus output is about 70 pounds per person

per year.

To combat odors in a house with an accumulation of wastes in its basement, Multrum employs a natural ventilation system, without fans. Air is introduced into the container at several points to insure a composting process which operates only on oxygen, thus avoiding the generation of foul-smelling gas which occurs in a septic tank. The vent leads the water vapor and carbon dioxide—the only gaseous products coming from the unit—up above the roof into the atmosphere.

Thus modern technology, through various incinerating and composting devices, is already solving the problem of a waterless method of human waste disposal. Maybe each one will find an appropriate niche in the sewerless society of the future—or perhaps some device not yet invented will be the answer.

But, whatever devices are used, the outlines of a sewerless society are taking shape—a society in which no sanitary sewers or central sewage treatment plants would be needed anywhere.

The advantages of a sewerless society would far outweigh the added costs:

1. A major contribution to public health by keeping any trace of human wastes (and their bacteria and viruses) out of the water supply.
  2. Stopping contamination of ground water by septic tanks or leaky sewer lines.
  3. Reduces eutrophication of lakes and estuaries.
  4. Better water quality for outdoor recreation.
  5. A reduction of about 43% in consumption of purified water, leading to great savings in building reservoirs, conduits, and filtration plants and reducing the adverse effects of future droughts.
  6. Release of large amounts of desirable land now tied up for treatment plants.
  7. Eliminating the expense of major underground piping systems, with continued savings by stopping repeated digging-up of streets.
  8. Opening tracts of land for building houses and factories where extension of sewer lines is not feasible.
- As these new devices become better known and prove themselves in large-scale trials, the next step is obvious. A long transition period will be needed to put them into wide use. First they would be installed in new vacation homes and in the "new towns" that are planned in many areas, eliminating the need for sanitary sewers and treatment plants.
- A society that spent billions for space travel and its related disposal problems surely can afford a few millions for intensified research into waterless methods of human waste disposal.

## GATES Santiam JV's Lose To Jefferson Lions

**Joyce Presler — 897-2707**  
Returning to Grullo, Jalisco, Mexico after a three week stay with Louis and Betty Hampton is Betty's brother, Rev. Humberto Garcia Zuniga. During his stay he had the pleasure of presiding at the wedding of his niece Linda and David Moreland. He also said mass in the Mill City Catholic Church and was able to see snow for the first time before he left on Sunday, Feb. 24. He planned to stop at Pacific Palisades, Calif. to visit his sister, Mrs. Alfred Bush before returning home. This is the first visit he has made with the Hamptons in five years.

On Thursday evening, Feb. 21, Janet, Suzie and Paul Lewis spent the evening with Mr. and Mrs. Paul X. Smith in Mill City. They had dinner and celebrated Paul Lewis's tenth birthday.

Visiting with Ray and Vi Foster on Sunday, Feb. 24, were Harold and Mary Wilson.

Visiting with Floyd and Laurell Johnson from Wed., Feb. 20 through Sun., Feb. 24 were their granddaughter, Lauri Cuthbert from Woodburn.

Saturday night, Feb. 23, Mr. and Mrs. Virgil Lewis attended the Talent Show in the auditorium at the high school. Both Suzie and Paul Lewis were participants in the show.

The Gates Christian Church hosted a program given by Mr. and Mrs. Glen Lyda on Camp Wi-ne-ma Youth Program. The Feb. 24 event was termed a success by persons attending the program and fellowship.

Betty Kelle will reopen her "This 'N That Shop" today (Thursday, Feb. 28). She will be open from 10:00 to 4:00 each Thursday and Friday.

A councilmember is still needed. It's a shame there is no one in this community interested enough to participate in the affairs of the city. If you don't like what's being done—participate, then you can't complain. Anyone interested may contact Mayor Jay Jenks or City Secretary Morgan White.

Water bills may now be paid at Ted's Drive-In or mailed to Water Dept., City of Gates, Gates, Ore.

Gates Christian Church holds church services at 10:00 a.m. and Sunday school at 11:00 a.m. Dean Cade is minister.

There is a Budget Committee Meeting at the Santiam High School on Wednesday, March 13, at 8:00 p.m. The purpose of this meeting is for members to receive the budget message.

For residents of Linn-Benton Counties, the IED is holding a budget hearing on Wednesday, March 13, 7:00 p.m. in the IED office at Albany.

Thought for the day: Doing an injury puts you below your enemy; revenging one makes you but even with him; forgiving it sets you above him.

Riddle of the week: When the clock strikes thirteen, what time is it? Time to get the clock fixed.

## Marilyn Club Meets At Carlson Home

Marilyn Club met Tuesday at 12:00 at the home of Mr. and Mrs. Donald Carlson. A covered dish luncheon was served followed by a short business meeting conducted by Mrs. Murry Moore, president of the club.

Final plans were made for the club's benefit luncheon which will be March 26 at the Fellowship Hall at noon. Mrs. Moore and Mrs. Carlson are co-chairman.

There will be no club meeting in March due to the luncheon. The next meeting will be held at the home of Mrs. Leora Stevens on Tuesday, April 23. Election of officers will be held with installation at the May 28 meeting.

Attending were Mr. and Mrs. Verne Clark from Stayton, Mr. and Mrs. Clyde Phillips, Mr. and Mrs. Merle Garton, Mrs. Edward Cruson and Mrs. Wilson Stevens from Lyons, Mrs. Ruby Brisbin and Mrs. Jack Gulliford from Gates, Mrs. Murry Moore from Scio, Mr. Jacobsen and Mr. and Mrs. Donald Carlson.

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