



MERRIMACK VALLEY WORKS
NEWSLETTER



Vol. 6, No. 3

A Western Electric Publication

March, 1973

New Products - page 5 — MVW and WE Performance in '72 - page 6 & 7

Unused Lands Become "Outdoor Labs"

Employees driving to work from the north have seen some unusual creations in the areas adjoining the athletic field. There's the A-frame tent, where Bell Labs engineers have been testing Western Electric radio equipment for the past few years. Their work is required to meet licensing specifications for the Federal Communications Commission. For most people the tent has become part of the scenery. But it's harder to ignore the sudden appearance of a sixty-foot tower with funny boxes on top at another end of the field.

Actually the installation is a prototype antenna-support structure erected by Western Electric's Equipment Standards Engineers for Bell Laboratories. The Labs are using it to test the thermal environment of electronic packages housed in the antennas. By monitoring how simulated equipment performs at different temperatures, they can judge how well the electronics will function when put into actual use by the telephone companies. At the same time, they are testing the design of the tower itself. With the new pole type tower, a cable car, which rides on the side of the pole, is used to reach the antenna station at the top. Eventually the Labs will use this installation to evaluate experimental radio equipment by transmitting to a similar installation in Methuen.

According to Cyril Bates, Bell Laboratories Supervisor of the Exploratory Antenna Studies Group, this is the forerunner of radio equipment some of which will be manufactured at Merrimack Valley to provide digital communications at much higher microwave frequencies than used today.

Another part of Merrimack Valley's "outdoor laboratory" is noticeable outside the fence behind the rear parking lots. The open area with the radio equip-



A cable car on the side of the new BTL installation near the athletic field provides easy access to experimental equipment.

ment at both ends is an antenna range, used to measure antenna patterns. With a transmitter at one end of the range and a receiver at the other, measurements are made of the strength of a radio signal as it is received by the antenna under test.

Because the measurements being made must be precise, the range had to be constructed to unusually rigid specifications. Bates explains, "We asked Western's Plant and Factory Engineers to build a 1,400 by 375 foot elliptical range and to make it as level as possible (neither rising or dropping more than an inch and a half) to minimize ground reflections."

QUARTZ BUILDING ENLARGED FOR POLLUTION GEAR

Building 34, the Quartz Crystal Building, is being enlarged in order to accommodate new pollution control equipment.

The expansion will be a 26 by 14 foot addition and will extend from the present vestibule to the ferrite loading dock. The pollution control equipment which the new facility will house will be used to clean the pollutants from the lapping grit operations in the crystal building.

Promotions

Burton M. Ehrlich, a Planning Engineer in the Interconnecting Device Process Development Printed Circuits, Coaxial Interconnecting Apparatus Engineering Department, was promoted to Section Chief, Printed Wiring Boards, 89520. The promotion was effective on March 12.

COVER

Mary Tuttle, an Inspector in the A-6 Channel Banks Department inserts the leads of a hybrid integrated circuit in a panel for the A-6 Channel Bank. See the new products story on page 5.

They're playing musical chairs on

NEWSLINE — extension 4161

call up and hear how different the news can sound . . .

MERRIMACK VALLEY WORKS NEWSLETTER

Published By



Western Electric

For the information of employees of the
MERRIMACK VALLEY WORKS
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Dept. 02040
Area Code 617-686-0600 Ext. 2594

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It's Nice To Be A Good Loser, But More Fun To Be A Winner

Last September Mrs. Alba Bocuzzo of the Precision Crystal Cutting and Lapping Section earned \$185 for her suggestion to improve lapping quartz crystals. Later her suggestion was reviewed again, and this month she received another supplementary award of \$815.

General Manager Dave Hilder discussed the suggestion with Mrs. Bocuzzo who visited his office to receive her award.

William Lyons (right), who works in the Repeater Inspection and Test Section, sent his idea to the Suggestion Award Program to eliminate a washer under a screw in 201 and 205 repeaters. When the case was investigated, it was discovered that an additional washer could be removed in the same product.

Because of the savings resulting from his suggestion, Director Bill Banton presented him with a check for \$345.



Six Engineers Honored For Excellence



This year's winners of the Engineering Excellence Awards are: Al Pepin, Tool Design and Numerical Control Programming Department; Don Raymond, Apparatus Test Engineering and Test Set Design; Art Prest, Process Capability Line; Pete Tokanel, Installation Engineering, Carrier Systems; Phil Scanlan, Installation Engineering, Turnkey, Non Standard, Special Designs and General Trade Analysis; and Ed Biron, Installation Engineering Radio Systems.

4455

— CALL THIS NUMBER AND LEAVE A MESSAGE FOR CONGRESSMAN MIKE HARRINGTON OR PAUL CRONIN — THEY'LL KNOW HOW YOU FEEL ABOUT THE ISSUES FROM

TAPE TALK

NAB PROGRAM GRADUATES TWO

Two of six Merrimack Valley Works people training in the National Alliance of Businessmen's JOBS 70 program recently graduated to become full time Bell System employees.

JOBS 70 is aimed at helping disadvantaged people overcome physical, emotional, language, cultural, or other handicaps while encouraging private business to hire, train, and retain them.

Each JOBS 70 participant spends 27 hours a week on the job and thirteen hours studying work related subjects at the International Institute in Lawrence. Teachers are supplied by the Lawrence Chamber of Commerce.

The work-study program lasts from 27 to 39 weeks, depending on the job and the particular problems of the student, which a counselor continually monitors throughout the program.

Three of the six MVW participants work for the Bell Labs Services Department and the others in random WE positions. The four who have not yet graduated were awarded certificates for their work in JOBS 70.

Credit Union Members Elect Officers



The 1973 officers of the Merrimack Valley Federal Credit union are (standing) Richard Rapazza, Second Vice President; Dominic Teoli, First Vice President; Frank Serio, Treasurer; Ted Dulemba, Secretary and Assistant Treasurer; and (seated) William Schmidlin, President.

MASS. CONSERVATION GROUP SETS UP BOSTON HOT LINE

On March 8 the Massachusetts Forest and Park Association established a legislative hot line with 24-hour service to keep Massachusetts citizens informed of the status of conservation bills on Beacon Hill. The number is 742-9644.

The recorded message is updated by the Association each Friday. The organization celebrates its 75th anniversary this year.

Nominations Over For Wevalley Girl

Nominations for the 1973 Wevalley Girl Contest closed on March 23, and the selection committee has begun interviewing prospective candidates. The telephone NEWSLINE will carry the contest schedule as soon as it is announced.

LADIES

*do you feel tired?
is your life fulfilled?
do your tensions cry
for escape by eventide?
do you secretly desire
release from your routine?*

A CURE!!!

is offered to you this very day --

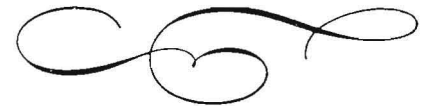
PLAY VOLLEYBALL

here -- after work --

*(no nasty members of the opposite
sex to ruin your game) -- (well,
maybe a small audience)*

INTERESTED?

call Deysi Darías on extension 3612



Bell System Day Care

Extends Into June

The operation of a pilot day care center in Columbus, Ohio, has been extended to at least the end of June, seven months longer than the original 15-month project. The child care center, open to children of Western Electric and Ohio Bell employees, is funded jointly by AT&T, Ohio Bell, and Western Electric to explore the economic feasibility of industrial day care.

SO THAT'S WHAT WE WERE DOING WRONG

What might have been sock-it-to-me time turned out to be a windfall of suggestions and constructive opinions as the Public Relations Department received the returns from last month's survey.

While the survey obviously was not designed or administered to scientifically measure how well information services like the NEWSLETTER do their jobs, it has indicated many directions that we can take to improve this paper.

For example, a better than three to one ratio of all the responses received asked for more information on new products introduced to Merrimack Valley. The broad outline of major equipment projects on page 5 should be a good start. And we intend to follow up with more product stories.

About a two to one ratio of people responding requested more information about the Merrimack Valley Works. This month's outline of the Works' business picture and 1973 goals should be a solid start in that direction. As for how much Bell System information should be included, one third asked for more, one third for less, and another third said keep it the same.

The survey pointed out several weaknesses in the NEWSLETTER. Not enough human interest stories. Sorry, but this issue only further illustrates that point. But we'll try to get better. Of course, since we don't really know all the human interest stories going on, why not give us a lead (call A. J. Belleville, extension 2594).

Other people complained about too many neckties in the paper, and going back over the past issues, they're right. It's difficult to balance coverage, but we'll try harder.

The monthly "article" read most often by the people who responded to the survey was the Anniversaries column; the feature read least often was Chow Line. About three-fourths of the respondents read the editorials.

There will be more information on the remaining parts of the survey in the May issue. The April NEWSLETTER will be a special Open House edition.

Thanks for all your help.
The Editor

Just What Are The New Product Lines At Merrimack Valley?

Any explanation of what's happening this year at Merrimack Valley (see page 6) must constantly refer to new products, as the influx of new manufacturing jobs affects every corner of the Works.

What are these new products that the Works is making or will make very soon? Rene Fugere, Supervisor of the Equipment New Design Section, lists ten major new equipment products that Merrimack Valley is already manufacturing or will have begun by the end of this year.

In 1972, Merrimack Valley began working on:

L5 Coaxial Carrier Repeaters

These repeaters (devices which receive energy or signals from one circuit and send them without added distortion at a higher level) are part of the L5 Carrier System which is being built to satisfy Bell System long haul communication needs on heavily used routes up to 4,000 miles. The repeater units are placed approximately every mile along the cable route. The electronic equipment for the L5 system uses thin film circuits.

T1 Integrated Circuit Line Repeaters (208)

Used on the short haul T1 system, this repeater also uses thin film components. Tentative plans call for the Works to significantly increase production of the T1 Carrier Line Repeater this year.

T2 Digital Repeater Lines

This product is a digital system; that is, one that breaks down information into "bits" and transmits them at high speed. The repeaters can be spaced as far apart as two miles, depending on the cable used. Digital lines are used (but not exclusively) in transmitting data communications between computers.

M12 Digital Multiplex

This equipment selects separate bits of signals, and combines (multiplexes) them into one signal that can be placed onto a T2 Repeated line. The M12 is a totally new product that does not replace any other equipment.

D3 Channel Banks

The D3 Bank is a solid state version of the present D1. A smaller piece of equipment, the D3 has six channel banks per transmission bay, double the old D1.

A6 Channel Bank

A-type channel banks provide initial modulation (the combination of one frequency with another in such a way that new frequencies are produced) and demodulation (the reverse procedure) in some transmission systems. The A6 is an innovation that allows lower costs and reduced size.

In 1973 Merrimack Valley will also begin working on these four major equipment projects:

High, Joseph L.	14560	5
Madden, Joyce I.	81410	5
Spina, Santo R.	12340	7
Parent, Laura K.	89660	8
Nardella, Olimpia V.	81660	9
Dion, Alice S.	89630	10
Donahue, Esther V.	81540	11
Potvin, Henry	89520	14
Ascenti, Katherine M.	89630	15
Rallo, Bette Lois S.	14950	16

continued on page 10

A6 Channel Bank (Unitized Version)

This further innovation over the standard A6 combines 14 channel banks with other equipment in a double bay.

1A Radio Digital Terminal

This unit operates on a data under voice principle, where data transmission is placed on the lower portion of the signal spectrum without displacing voice conversations being made at the same time.

Digital Data System (DDS)

The DDS establishes two-point private lines for data service, allowing up to 460 data channels to be transmitted over a single T1 repeated line. With current methods only as many as 24 data channels could be transmitted over that line. The initial installation for DDS will be a five city network linking Boston, New York, Philadelphia, Washington D.C., and Chicago.

L4 Carrier For Short Haul (L4S)

This carrier system is intended for metropolitan areas where transmission distances are short. It is derived from the standard L4 equipment, a familiar Merrimack Valley product line.

Frank Jameson, Chief of the New Design Equipment, Indices, COMCODE, and Special Projects Department, emphasizes that these are not the only new products Merrimack Valley will be making this year. Many new pieces of apparatus must be made to supply these product lines. Jim Christie, Chief of the New and Changed Apparatus Coordination Department, reports that 1,300 new apparatus codes were introduced at Merrimack Valley last year and that the same number should be introduced this year. Among the apparatus codes are thin film jobs that will result in about 3.2 million film integrated circuits and hybrid integrated circuits in 1973. (Look for a special feature on thin film circuits in an upcoming issue.)

Other smaller equipment projects are also under way. But these ten are Merrimack Valley's major new products, the reasons behind many of the recent changes here at the Works.

Anniversaries

TWENTY-FIVE YEARS

Name	Dept.	April
Charbonneau, Lorraine L.	89490	9
Richards, Anne S.	89610	21
LaFrance, Nellie M.	14160	22
Houston, Lester F.	12420	23
Quinney, Wendell C.	89630	25

TWENTY YEARS

Millette, Joseph R.	14510	17
Cox, Walter A.	89630	20
Lambert, Gerard F.	03790	20
Biron, Edward J., Jr.	21970	22
Hmurciak, William S.	12370	22
Hynes, Dennis J.	81660	22
Joncas, Albert B.	81620	22
Scott, Donald B.	12420	27

FIFTEEN YEARS

Parker, John S.	27500	1
Rondeau, Alice Y.	81480	2
Busta, Irene B.	81930	5
Durbin, Henry P.	12340	5

MVW Described As Productive In '72 And Growing To Meet Challenge

Several weeks ago General Manager Dave Hilder met with all the supervisors and engineers at the Merrimack Valley Works, and later with the officials of Local 1365, Communications Workers of America, to discuss how the Works performed in 1972 and what everyone can expect this year.

During the meetings Dave commented upon the important role of individuals accepting all the responsibilities of their jobs to meet the 1972 goals and expressed his hope that the same effort would carry through this year.

Here are a few of the highlights of those meetings:

WAS MERRIMACK VALLEY PRODUCTIVE IN '72?

Yes, even though the amount of product shipped to our customers dropped from the previous year. Over a year ago the decrease was predicted as many other businesses experienced similar situations with the national economy sluggishly struggling out of a period of reduced activity.

HOW ABOUT THIS YEAR?

The volume of goods shipped in 1973 should jump about 20% over last year. New product lines (see story on page 5) should substantially increase during this time to the degree that in the fourth quarter of this year about half of the merchandise manufactured at Merrimack Valley will be new products.

HOW WELL DID THE ENTIRE WORKS PERFORM LAST YEAR?

Any performance analysis of a plant the size of Merrimack Valley involves an incredibly complex evaluation of hundreds of different activities. However, two factors can serve as good measuring sticks.

Did we ship our goods to the customer on time and how well was that product made?

Last year the Works shipped over 97% of all its orders on time. It's not perfection, but it's so good that this year's goal is to match the same performance. The quality of our merchandise was also good in '72 with only 1% of our rates falling below quality standards. The goal for 1973 is to reduce that figure to less than 1%.

WHAT ABOUT PEOPLE?

This year the shop workforce should increase by about 400 people over the total on roll at the end of '72.

WHAT ELSE SHOULD WE LOOK FOR IN '73?

Attendance is something that's going to be on everyone's mind. Last year, the Works lost 108,000 work hours to absenteeism. A lot of people are concerned about lowering that figure in '73.

ANYTHING ELSE?

There's going to be an even stronger emphasis on safety in another performance category that must improve. New rules will be strictly enforced. You will also see the "Sight on Safety" program in 1973.

WHAT OTHER GOALS WERE EXPRESSED?

During each of the meetings, Dave Hilder stressed performance in nearly every area of Works activities. He emphasized Merrimack Valley's present and future commitment to Equal Employment Opportunity and discussed the Affirmative Action Program (outlined in the newsletter). He also spoke of growing involvement with our suppliers.

All areas of cost reduction will have a target for 1973 to again assist in offsetting the increased cost of materials. Included in this effort will be attempts to improve efficiency in our office procedures.

Dave expressed the importance of quality performance when he referred to the recent meeting with President Don Procknow, Executive Vice President. He said our Vice President Morry Tanenbaum: "They're going to expect we need to do our job well. It is now up to us to make it a success."

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WE REPORTS BUSINESS ACTIVITY IN '72

Western Electric released its 1972 annual report to stockholders and the press earlier this month. Since there are not enough copies in print for every employee, here are some of the report's highlights:

SALES JUMP 8%

In 1972 WE's sales increased to over \$6.5 billion, a jump of over 8%. Of the 1972 total, sales of products and services to the Bell telephone companies increased about \$450 million to \$5.5 billion. Sales to the federal government represented 14% of total sales.

EARNINGS IMPROVE SLIGHTLY

The net income from sales in 1972 was 4.3 cents on the dollar, the same as during the preceding two years. There was, however, a modest improvement in earnings, from 9.4% to 9.5% on total net investment.

COSTS REDUCED THROUGHOUT COMPANY

The report also spotlighted a new record in cost reduction, with first-year savings of nearly \$104 million. Engineering cost reduction increased to nearly \$97 million, more than \$22 million above the 1971 record.

WE PAYS BILLIONS TO SUPPLIERS

Purchasing and Transportation expenditures in 1972 amounted to \$2.8 billion. These purchases were made from about 50,000 suppliers and carriers located in more than 4,000 communities in every one of the 50 states. More than 90 percent of the suppliers are small businesses. In Massachusetts alone WE paid over \$231 million to almost 2,800 suppliers.

EMPLOYMENT DOWN IN '72

The report stated that the average number of employees decreased in 1972 from the previous year's 214,000 to 207,000. In meeting the EEO commitment, the report said that about 14 percent of the company's employees in 1972 were members of minority groups.

WHAT ELSE?

The report also emphasized the service and equipment support provided by WE to the Bell companies in restoring service knocked out by tropical storm Agnes last June in Pennsylvania, New York, Maryland, and Virginia.

Merrimack Valley was spotlighted in the report for its work on the L-5 carrier system and the growing of lithium tantalate, a clear crystal which the report states is "the first practical alternative to quartz for use in communication transmission equipment."

In 1972, Western Electric also:

- shipped 10.1 million telephone sets to Bell telephone companies.
- shipped enough equipment to install more than 4.8 million dial lines to the Bell System network.
- authorized the construction of the first two in a series of Material Management Centers to help maintain stocks for telephone companies.
- completed three major manufacturing plants in Denver, Dallas, and Atlanta, and continued construction on a new plant near Richmond, Va.

Retirements



Peter J. Smith, a Toolmaker in the Tool Maintenance Section, will retire on April 30. Mr. Smith, who lives on Kenoza Avenue in Haverhill, has almost 29 years of service.



Agnes C. Oatley will retire on May 1. Mrs. Oatley is a Coil Winder in the 94 Type, Coil Winding, Adjusting and Miscellaneous Operations Section, and lives on Concord Street in Seabrook, N.H. She has 28 years of company service.

Lillian W. Smith retired on March 26 after nearly 29 years of company service. Mrs. Smith, a Layout Operator in the Coil Test and Adjust Section, lives on Downing Avenue in Haverhill.



Agnes M. Chalk, a Machine Operator in the Offset and Duplicating Section, will retire on May 31. Mrs. Chalk, who lives on Elm Street in Andover, has been with Western Electric for over 25 years.



Walter E. Kulig, an Assembler in the MMX-2 Panel Assembly and Wiring Section, will retire on May 31. Mr. Kulig has been with the company for over 17 years and lives on Thorndike Street in Lawrence.



Margaret B. Dunn of Howard Street in Haverhill will retire on April 27. Mrs. Dunn, a Tester in the Miscellaneous Operations Section, has over 18 years of company service.

Arthur Long will retire on April 30 after over 21 years of service. Mr. Long, a Results Investigator in the Quality Appraisal and Control Section, lives on Hampshire Street in Methuen.



Julius J. Zamierowski will retire on April 3 after working for Western Electric for over 44 years. A Section Chief in the Duolateral Coil Winding Section, Mr. Zamierowski lives on Manners Avenue in Haverhill.

Sophie M. Arhondy, a Tester in the Coil Test and Adjust Section, will retire on April 9. Mrs. Arhondy lives on Warrenton Road in Haverhill and has over 29 years with Western Electric.

Agnes Winds Up Job Before She Leaves

Over 28 years ago Agnes Oatley began working for WE in Haverhill on the 94 type coil. There were just over a hundred people working the first and second shifts and Agnes says that the 94 type coil job preceded her employment in the Haverhill Shops by just a few months.

This month Agnes wound Merrimack Valley's last 94 type coil as the job was transferred to North Carolina. "I'm ready to retire (May 1) and I'm glad I got to finish the job before I go," Agnes says. "I've worked on 94 type coils ever since I came here. In fact, my department was the last to leave the Haverhill Shops, bringing the job over to Merrimack Valley."

Agnes never worked on another product for more than a few weeks during her long career, and she emphasized that this was only during emergency or "special" situations.

Her supervisor, Bob Chooljian, stood by while she wound up the job that began so long ago.



This is the second in a series of articles prepared by the Headquarters Benefit Organization describing the highlights of the Western Electric Benefit Program. The articles are intended to promote a general understanding of the various plans and cannot cover all of their terms and conditions. Full details are available, however, in booklet form from your local Benefit Department.

For Your Own Benefit

In the first article of this series we discussed your sickness disability benefits. These benefits help you to meet your regular living expenses when you are disabled, and in this way provide financial protection for you and your family. "That's great," you're probably thinking, "but what happens if I have to go to the hospital? What about my medical expenses?" Good questions.

The cost of medical care is one of the fastest rising items measured by the government's consumer price index. The charge for a semi-private hospital room has almost doubled in the last 5 years. In some parts of the country it has risen to

as much as \$115 a day. And that charge is just for room and board. It doesn't include such items as the use of the operating room, x-rays, medication, and other routine services and supplies which are usually required during even the shortest hospital stay for the most ordinary illness.

With medical costs at their current level and rising almost daily, a person can't afford to be without some form of health insurance. And just being sick is worry enough, without having to be concerned about the expense.

Fortunately, as a regular employee of Western Electric, you are eligible to hos-

pital-surgical-medical insurance under a company group plan. All company locations offer the HSM (Blue Cross-Blue Shield) plan. In those areas where suitable facilities are available, an alternate plan, generally referred to as a prepaid health insurance plan, is offered. If a prepaid plan is available in your area, you have received a brochure describing the plan and a comparison sheet showing the differences between HSM and the prepaid plan. In view of this, and since the various prepaid plans differ somewhat, we will not attempt to explain them in this article; we will, instead, discuss the HSM plan which covers most of our employees.

The following questions and answers present the highlights of the HSM plan and explain the different types of contracts and some of the claim filing procedures.

WHAT ARE THE HOSPITAL (BLUE CROSS) BENEFITS PROVIDED BY HSM?

Some of the hospital charges paid in full whenever you are admitted for treatment as an in-patient are:

- 120 days in a semi-private room during each confinement period. (A confinement period is a single hospital stay of 120 days or a series of hospital stays which add up to 120 days. A new confinement period starts whenever two hospital stays are separated by 90 days.)
- use of operating and recovery room and equipment
- laboratory and x-ray examinations
- drugs and medicines prescribed for use while you are hospitalized
- anesthesia supplies and administration of anesthesia by a hospital employee

(The HSM booklet, which you can obtain from your benefit representative, contains a list of many other in-patient

Gatti's Galley goes meatless—

In respect to the Lenten season and with an eye to the soaring cost of meats, Gatti's Galley presents some popular ethnic meatless recipes.

OMELETTE WITH TUNA

½ clove garlic	½ teaspoon oregano
4 eggs, lightly beaten with fork	1 can grated tuna fish
1/8 teaspoon salt	2 anchovy fillets, minced
¼ teaspoon pepper	2 tablespoons olive oil
1 teaspoon chopped parsley	

Rub a bowl with garlic and mix the eggs, salt, pepper, parsley, oregano, tuna fish and anchovies together in the bowl. Heat the oil in frying pan; add egg mixture; and cook on low fire 12 minutes on each side. Serves 4.

SPAGHETTI MARINARA

1 lb. spaghetti	½ teaspoon basil
1/3 cup olive oil	1 ½ teaspoon salt
2 cloves garlic, chopped fine	¼ teaspoon pepper
4 cups tomatoes, peeled and cut into wedges	1/8 teaspoon oregano
1 tablespoon chopped parsley	3 tablespoons tomato paste
	grated cheese

Brown garlic in oil. Add tomatoes, parsley, basil, salt, and pepper and cook over low flame 30 minutes. Add oregano and tomato paste and continue to cook about 15 minutes or until sauce thickens.

While sauce is cooking, cook spaghetti in rapidly boiling, salted water until tender, drain and place on serving dish. Pour sauce over spaghetti, mix lightly, and serve with grated Parmesan cheese. Serves 4.

MINESTRONE TUSCAN STYLE

½ lb. dry white beans	1 zucchini diced
2 tablespoons olive oil	1 teaspoon chopped parsley
1 clove garlic, chopped fine	1 teaspoon salt
1 small onion, chopped fine	½ teaspoon pepper
1 stalk celery, chopped	1 clove
1 teaspoon rosemary	12 slices French bread, toasted
1 tablespoon tomato paste (diluted)	2 tablespoons grated Romano cheese
1 small cabbage, shredded	

Soak beans overnight. Then boil in 3 qts. of water for 1 hour or until tender. While beans are cooking, place oil, garlic, onion, celery, and rosemary in soup pan and brown lightly. Add tomato paste, diluted in 2 tablespoons warm water, and cook 5 minutes. To this mixture add cabbage, zucchini, parsley, clove, salt, pepper, and beans in their liquid. Cook slowly for 20 minutes. Place 2 slices toasted bread in each soup dish, add soup and sprinkle with cheese. Serves 6.

Any of these dishes, combined with bread, cheese, and fruit is a substantial meal.

continued on page 11

"QUITE A SHOW" FOR HARRY TRUMAN

The public knows how the Bell System whirls into extraordinary action during disasters and emergencies. But not many people are aware that Ma Bell must make the same effort when any major event touches the nation. While the people at Merrimack Valley must respond to urgent manufacturing demands, members of the other 99% of the Bell System respond to other less predictable demands.

Closer look tells the story of how southwestern Bell said goodbye to Harry Truman. Elsewhere, in a matter of days, the same story would be repeated for the passing of Lyndon Johnson - with no warning, but as much care.

...Despite the utter simplicity of the services, it was not an easy task for Americans, for the Fifth Army (responsible for conducting the funeral), and for telephone people, as the Army's administrative needs, the security needs of the mourners, the information needs of the public, and the privacy of the Truman family swelled the funeral into a massive telecommunications project.

Because of the complexity of funeral arrangements for a former president, the Fifth Army began planning for the eventuality years in advance, including communications. As coordinating agency, the Army worked with the telephone company in specifying not only its own administrative communications needs, but also those of the other organizations which were integral parts of the plan.

For example, the Secret Service needed telephone communications to carry out its duties of protecting the Truman family, President Richard Nixon, and former president Lyndon Johnson.

Of course, no matter what the occasion, the President cannot allow himself to be isolated from the nation and the world, so telephone people prepared, as always, for Nixon's coming by installing presidential communications facilities at Richards-Gebaur Air Force Base where the President landed and at many other points in the Kansas City-Independence metropolitan area.

Further responsibilities for protective security fell on local police departments as hundreds of officers moved into greater Kansas City from other parts of the state. The scope of this law enforcement operation required installation of a special nerve system which included a two-position switchboard and telephones strung from Kansas City International Airport at one end of town to the air force base at the other end.

In addition thousands of newsmen descended upon the metropolitan area. And everywhere the public's eyes and ears go, telecommunications are a must. When news people shifted their headquarters from Research Hospital to the Memorial Building in Independence, telephone crews were ready for them. Thus,



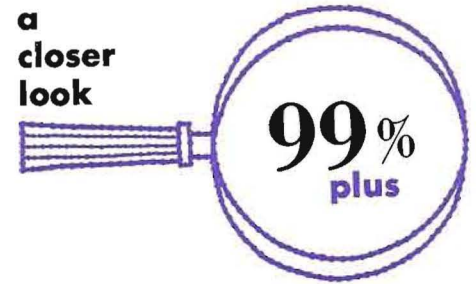
The Fifth Army's briefing room in Independence was the heart of funeral planning action.

while the family's request for privacy was heeded, Americans across the nation joined the mourning, watching the funeral procession and simple burial in a rose garden outside the library.

The communications network for the Fifth Army itself centered around its funeral operations center at the National Guard Armory in Independence. From there the network fanned out to all points involved with the funeral including Army installations several states away.

Finally, telephone crews built one more private network. A special system for telephone company use served as a safeguard for emergency communications should any of the other systems fail or a

a
closer
look



central office become overloaded.

All of these systems and networks were completed and in service within 36 hours of Mr. Truman's death.

"I have never seen a project where telephone people put their shoulders to it and pushed together the way they did on this," said Tom Snow, Kansas City Engineering Associate, who served the company's trouble shooter for the funeral.

"Long Lines did a fabulous job putting in long distance circuits. People at Western Electric gave me their home phone numbers and said to call at any hour if we needed them. I'm lost for the right word to describe the response we got from all telephone employees."

All told, says Snow, well over 1,400 service orders were worked in connection with the former president's illness and death. Nearly 800 telephones were installed. Some 200 channels were provided for radio and television broadcasts.

Snow also remembers the down-to-earth qualities in Mr. Truman. Ironically, he was no stranger to Truman when he took responsibility for the communications plan. Snow had grown up in the neighborhood where Truman lived.

"It was necessary to get Mr. Truman's approval on the funeral plans. He looked everything over, and his reaction was just typical for him. He said, 'This is quite a show you've got planned. I kind of wish I could be here to see it!'"

Anniversaries - from page 5

Savastano, Rose C.	81640	16
Coconis, Jennie	81540	18
Gwinn, Paul J.	81480	19
Torrissi, Victoria C.	89510	19
Thibault, Marie G.	89610	20
Yerian, Margaret A.	81580	22
Angelone, James	81450	23
Anderson, Isabel D.	89660	25
Fairbrother, Arthur W.	81630	26
Patnaude, Dorothy H.	89320	28

Benefits - from page 9

services covered by Blue Cross.)

HOW ABOUT OUT-PATIENT HOSPITAL CARE?

Charges for out-patient hospital care are paid for emergency treatment within 72 hours after accidental injury, for sudden and serious illness, and for minor surgery.

WHAT ARE THE SURGICAL-MEDICAL (BLUE SHIELD) BENEFITS?

The Blue Shield part of your HSM plan reimburses 80% of the "customary and reasonable" charges of your physician for surgery and hospital care. Minor surgical procedures, x-rays, and laboratory tests performed in your doctor's office are also covered. In determining what is "customary and reasonable" Blue Shield takes into consideration the customary fee which your physician most frequently charges the majority of his patients for a similar service or procedure; the prevailing range of fees in your locality by physicians of similar training and experience for a similar service or procedure; and any unusual circumstances or medical complications requiring additional time, skill, and experience in connection with a particular service or medical procedure.

DOES THE HSM PLAN HAVE ANY LIMITATIONS OR EXCLUSIONS?

Yes.

No benefit is paid for services received or for a hospital stay which began prior to the effective date of your coverage, and hospital and medical benefits for pregnancy-related conditions generally are not effective until 270 days after the effective date of the contract.

The hospital confinement period for pulmonary tuberculosis, mental and nervous conditions, alcoholism, and drug addiction is limited to 30 days. Hospital stays for these conditions must be separated by 180 days before reinstatement of the 30-day confinement period.

Routine health examinations, regular dental care, and private duty nursing care are not covered by HSM.

The plan will not duplicate payments made by another health insurance plan for which an employer pays a portion or all of the cost or makes

PIONEERS SPONSOR 2nd EARTH WEEK CONTEST

This year the Telephone Pioneers are again celebrating Earth Week with an environmental photo contest. The theme for photo entries is "the good life depends on a good environment," and all entries must portray people as well as nature.

Locally, the Merrimack Valley Chapter will run the contest which will be open to all employees from April 9 to June 9.

Pioneer F. O. Smith describes the competition. "There will be two categories: black and white and color. Color entries include both prints and slides." The local competition has three prizes for each category and at least four honorable mentions regardless of category. The contest prizes are gift certificates for camera equipment.

The ten best entries will be forwarded to New York when the national Pioneer's contest will be judged. Top prizes for that competition are trips for two to the Pioneer General Assembly in Oregon this September.

Rules as well as information on the contest are posted in the Pioneer Lounge and are also available through the Wevalley Club.

payroll deductions for the cost. (A more complete list of exclusions is shown in your HSM booklet.)

WHO IS ELIGIBLE FOR COVERAGE UNDER THE HSM PLAN?

All regular employees and retirees under age 65 and their qualified dependents under age 65 are eligible for HSM coverage. There are 3 types of contracts:

The *individual* contract which covers just the employee.

The *family* contract which covers the employee; his or her spouse; and dependent, unmarried children until the end of the year in which they reach age 19 (over 19 if they are physically or mentally incapable of self-support).

The *sponsored* contract which provides the same benefits as the individual contract and covers an employee's unmarried child from the end of the year in which the child reaches age 19 until the end of the year in which he or she becomes 23.

HOW MUCH DOES HSM COVERAGE COST?

For employees with 6 months or more of company service, individual and family coverage is free - the premiums are paid by the company. New employees must pay the monthly premium until they attain 6 months of service. (Premiums vary according to the experience group. Your benefit representative can tell you the premium for your group.) All employees must pay the full premium for sponsored contracts.

HOW DO I SUBMIT MY BLUE CROSS-BLUE SHIELD CLAIMS?

You should present your Blue Cross-Blue Shield identification card whenever you or a covered dependent enters the hospital. The hospital will then send your claim directly to Blue Cross. You are asked to pay only for services not covered by our Blue Cross plan. In the majority of cases, these charges are limited to the difference between the charge for a semi-private and a private room, television rental, and telephone calls. Your physician will assist you in filing your Blue Shield claims. You will be asked to provide personal information, such as your address, the name of your employer, name of patient, etc., and the identification number on your Blue Cross-Blue Shield card.

Your benefit representative can answer any further questions you might have regarding HSM. Be sure to contact your representative whenever you have an enrollment change (a change from an individual to a family contract, the enrollment of new-born or adopted children, or any other change affecting the number of dependents covered by your contract).

The HSM (or optional prepaid) plan will usually take care of most of the expenses of an ordinary illness requiring hospitalization or for emergency care in the out-patient department of a hospital. But what about the unusual or chronic illness that results in medical expenses over and above those covered by our basic hospitalization plans? The company's Extraordinary Medical Expense Plan (EME) was designed to help pay these expenses. We will discuss the EME plan in the next article in this series.

Kaleidoscope

Captain Crunch No Longer Feeling His Oats

ESQUIRE featured an article on "phone phreaks" a few months ago, centering on a person identified as "Captain Crunch"...the captain revealed in the story...which was not a serial...that he was one of the country's leading phreaks illegally tapping into the phone networks with national and international calls...well the Captain has been crunched...the FBI recently busted him for fraud with a possible sentence of up to five years and \$1,000 if found guilty.

Digital Information Confused In Indiana

When an 82 year old man ordered telephone service from Indiana Bell he requested dialing instructions because he had never had one of those "new fangled" phones...the service rep explained the routine and the man went home happy...he wasn't so happy when he returned, unable to place a call... "You said to put my finger in this hole and turn it" he said as he demonstrated...the service rep began the instructions all over again when she saw that the man was twisting his finger and not the dial.

Buena Vista Right in MVW's Backyard

From a surprising source (THE KEARNYGRAM, the Kearny Works newspaper), the story of the city that was planned but never was...

At the bend in the Merrimack between Haverhill and Lawrence, extensive and elaborate plans were made in the 1890's for the city of Buena Vista.

The master plan called for a monorail connecting to Haverhill and Lawrence, a lock and dam system on the river for power, 50 by 150-foot lots in planned residential areas, industrial sites on the river bank, and for the tourists, a hotel on a hill overlooking the city.

The man who conceived the dream of Buena Vista describes his feelings that a "more beautiful spot could not be found in all New England; renowned as it is for its beautiful vista and lovely scenery." His dream crumbled (along with the hotel) as two months before the building was to open it collapsed after being buffeted by high winds. The destruction of the hotel began a major reversal in the fortunes of Buena Vista and the stockholders and future investors abandoned the project.

Just out of curiosity, anyone with more information on Buena Vista should call the NEWSLETTER on extension 2594.

Dial K-9 To String Line

Dogs don't usually rate very high on a telephone installer's list (probably two steps above hurricanes and one above in-laws)...but a New England Telephone installer repairman was muddy glad to meet one customer's poodle...

The installer was assigned to install a phone in a mobile home, but when he arrived at the site he found that the skirt, a latticework covering that enclosed the bottom of the trailer, had already been installed...there was a small door at one end so that someone could enter the crawlspace under the trailer...but the customer wanted the phone installed at the other end of the 65-foot mobile home...the installer would have to crawl that distance and back in the mud through pipes, axles, and wheels to string the phone wire...that's when the woman's poodle got its start as a temporary Bell System employee.

With the woman's permission he attached the phone wire to the pooch's collar and placed the dog in the crawlspace...the woman stood at the other end of the trailer and called her dog who scurried to the other end of the crawlspace delivering the wire...then he reached through the lattice and unhooked the wire from the dog's collar...it was then simple to fish the wire up through an opening in the trailer floor....

And so ends another shaggy dog story...got them by the pound.

Calamities Set Pace For European Tour

A Southwestern Bell employee, Mrs. Betty Pace, was recently awarded a Bronze Vail Medal for administering mouth to mouth resuscitation and saving a woman's life while touring Ireland...Mrs. Pace picked up another award...the victim had a serious case of the flu which Mrs. Pace developed a few days later, ruining part of her trip...and to make her vacation even more exciting...when disembarking in New York, one of her fellow tour members fell, breaking her glasses and cutting her face...Mrs. Pace administered first aid.