

MERRIMACK VALLEY WORKS
NEWSLETTER



Vol. 7, No. 6 A Western Electric Publication June-July 1974

SANDRA POULIN WINS FIRST VAIL AWARD AT MVW



Sandra Poulin, Merrimack Valley's first Vail Award winner, relaxes with Ricky and Robbie Bouchard. In May of 1973 Sandy pushed Robbie from a burning building and used her own body to break Ricky's fall as he jumped from the roof of the house.

For the story and more information about the Vail Award, turn to page 6.



V.I.F. Shipped On Time To Illinois Bell



The large object in the middle of the crowd is a voice band interface frame (V.I.F.).

To the people gathered around it, the V.I.F. meant six months of urgency, and this particular day, the end of an unbelievably hectic project.

In late December, Illinois Bell ordered 23 of these special triple bays from Western Electric. The V.I.F. transfers analog (voice modulated) electrical-frequencies to digital frequencies for the ESS (electronic switching system). It's not the kind of thing kept on the shelf in case anybody calls up and wants one. In any case, Merrimack Valley got the job - build, test, and ship these bays by June 5 - in other words, a special manufacturing project from beginning to end in less than six months. To make the job even more interesting, the V.I.F. uses a new technology in wiring so that it can



work with the number 4 ESS.

To leave out all the hassles and heartache, the job was completed on time with unusually short notice with the help of a lot of people from every corner of the Works, and the skill of the crew in the D2 and T2/M12 1ARDT and DDS Panels and Bays, A and W Inspection and Test Department. That's the first shift up above, and the second below.

WE Increases Prices Effective July 1

On July 1, Western Electric increased the price of items manufactured for Bell System telephone companies by an average of 4.7 percent.

President Don Procknow said: "In the first five months of 1974, the Bureau of Labor Statistics wholesale price index of industrial commodities has risen at an annual rate of about 25 percent. Prices for the kinds of things we buy, particularly raw materials, have risen even more."

He added, "While we are constantly striving to offset material and labor increases with cost reductions of all kinds, this year's rate of inflation has outstripped our most ambitious cost improvement efforts."

In Memoriam

Michael P. Iannazzo, Printed Wiring Section, May 28, 1974.

Anthony Moll, Process and Final Test, Process and Final Inspection, Coordinating Sealing and Painting Section, June 3, 1974.

John L. Lyons, Coil and Terminal Plate Assembly Section, June 20, 1974.

Olga R. Crandall, Multiple Wound Coil Assembly Section, June 22, 1974.

July and August Anniversaries

THIRTY YEARS

Name	Dept.	July
Earle H. Gifford	89320	1
Frederick C. Colby	89460	4
Mildred E. Ryan	89610	4
Pauline W. Demers	14940	9
Fairfax Hatch, Jr.	12310	10
Beverly McVey	89630	11
Henry M. Millett	89490	14
Mary D. Burns	14960	17
Richard J. Haseltine	89610	17
John C. Edwards	21970	23
Carmen Marchisio	81850	25
Isabel H. Remick	89490	25
Jennie S. Barberio	89490	26
Helen A. Rutyna	89490	26
Hazel H. Hart	89620	27

TWENTY-FIVE YEARS

Mary S. Staples	81820	9
Lewis E. Walberg	80470	10

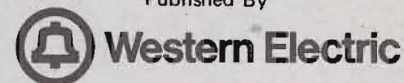
TWENTY YEARS

Mary S. Lesiczka	89490	2
Rose S. Conte	89490	4
William P. Komulainen	02130	4
Alvin D. Parker, Jr.	21470	6
Clement L. Dunkley	02130	12
Joseph S. Rigazio	89490	20
Rosalie N. Laurenza	81780	26

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MERRIMACK VALLEY WORKS NEWSLETTER

Published By



For the information of employees of the
MERRIMACK VALLEY WORKS
North Andover, Massachusetts
Dept. 02040

Area Code 617-686-0600 Ext. 2594

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Printed on 100%
Recycled Paper



SLIPS, FLIPS, AND OTHER PAINFUL TRIPS

By Charmaine Doucet

HAPPY LANDINGS were not the case for the twenty-three people here at the Works involved in lost time accidents last year through falls.

While there may be only one route to a successful fall (down), the Safety Department breaks down the situation into four options you can exercise to get there . . .

Liquids spilled on the floor, foreign objects left on the floor, tripping hazards slung across or set upon the floor, and natural hazards likely to occur out of doors.

Since a lost-time accident isn't the most pleasant way to take a short vacation, why not make sure that you and your friends don't end up sprawled in the aisle with bruises and broken bones? It's no joke.

Wipe up spills -- that coffee or coke could cost someone a lot of pain. Paper towel dispensers are mounted on the Canteen machines. Keep a few handy for grease spills.

Don't litter, and don't be too proud to stoop over and pick up what someone else may have dropped. Wrappers, wire clippings, screws, and finger cots have no business being underfoot.

Watch out for tripping hazards -- cards, desk drawers, and odd objects temporarily "stored" on the floor. If you can't correct the situation, tell your supervisor.

As for outdoor hazards like gravel, or ice in the winter, our grounds crew does its best, and would like to know where there might be trouble. Tell a guard or

WAVEGUIDE ROUTE UNDER CONSTRUCTION

The Bell System announced on June 19 that construction has started in northern New Jersey on the first link of an entirely new kind of super-capacity transmission system--called millimeter waveguide--capable of transmitting a quarter million telephone calls simultaneously.

The initial section of the project will become part of a major north-south waveguide system which Bell spokesmen expect to go into commercial operation in the 1980's. That portion of the route now being built also will be used to evaluate construction techniques and transmission quality of the waveguide under actual field conditions.

The project in Morris County involves burying an outer protective sheath four feet underground along an 8½ mile route. The section extends south from the American Telephone and Telegraph Company Long Lines Department Office at Roxbury Township to Mount Olive Township and ends in Washington Township. Beginning in August, workmen will open the sheath at one-mile intervals and insert the copper-lined waveguide tube which is cushioned with roller spring supports.

call the Safety Hot Line (3011) and report the problem immediately.

The big thing is to keep your eyes open and watch where you're walking. Be careful -- a long stride cometh before a fall.

The waveguide is a hollow, 2½ inch tube, inside a protective sheath, capable of initially carrying 230,000 telephone conversations at the same time--more than twice the capacity of the most advanced coaxial cable in use today. Complex solid state electronics transmit extremely high frequency radio signals through the waveguide. The system is different from any in existence and has an ultimate capacity of nearly 500,000 telephone conversations. In 1975, the route will be extended an additional 11½ miles for a total of 20 miles.

The new system is being developed to meet the need for a low-cost, high capacity transmission facility to handle the growing demand for communications services expected in the 1980's.

With the volume of interstate telephone calls increasing at a rate of between 11 and 13 percent annually, the Bell System anticipates the need to *triple* the capacity of its interstate network in the next decade.

The waveguide tube permits voice, data, and television signals in the form of billions of coded pulses to flow through a controlled atmosphere at the speed of light. These radio waves are so short they are measured in millimeters--hence the name, millimeter waveguide. The frequency band of the waveguide system is 40 to 110 gigahertz (a gigahertz is one billion cycles per second), a greater bandwidth than all the combined "through the air" radio frequencies now authorized for common carrier use.

These signals are able to travel relatively long distances with little loss of energy. They require amplification only once every 20 to 25 miles. Some coaxial cable systems require amplification every one or two miles.

DID YOU KNOW THAT??

If you are enrolled in an individual membership in Blue Cross/Blue Shield at the time of your marriage, you should go to the Benefit Department and change to a family membership within 31 days. If your spouse, however, is also an employee with an individual membership, you need not make this change unless one or the other leaves the company for any reason. The remaining employee must then change to a family membership. This is not done automatically.

'74 Bond Drive Results

While Uncle Sam, the Wevalley Girls, and the Bond Band kicked off the annual MVW United States Savings Bond Drive with music and fun, the 700 canvassers finished their two-week campaign with something quieter but infinitely more satisfying--success.

According to drive committee chairman Art Hatcher, MVW people are now saving over \$145,000 each month through payroll deductions. Twenty-three percent of the people already using the payroll savings plan increased their deductions, while 21 percent of those not buying bonds signed up during the drive.





Carden LeBlanc, Ed Gawrys, Gustavo Jimenez, and Jonathan Arold.



June Lazos, Kenneth Miller, and Bob Vaughan.



Seated: Fred Marchant, Standing: John Campbell and Thomas Minior.



Burton Ehrlich



George Jaworski

Twenty-eight earn degrees at end of spring semester

Twenty-eight MVW people have earned college degrees through part-time study, many through the company's tuition refund plan, and some through G.I. benefits. Several other employees, unavailable for photographs for this issue, will be featured in the August edition.

Anyone who does complete a degree or course of study should fill out a company form, MV45-Y, to enter the degree in the personnel records, as there is no automatic record made of the degree, even if the tuition refund program has paid for the courses.

The graduates are:

- Jonathan Arold, Monolithic Crystal, Filters Development and Product Engineering, Master of Science in Electrical Engineering-Northeastern University.
- Burton Ehrlich, Plated-Thru Holes PWB, Master of Business Administration-Suffolk University.
- George Jaworski, Multiple Wound, Laminated Spool and Duolateral Coil, Filters, Network and Cast Resin Engineering, Master of Business Administration-Suffolk University.
- Kenneth Miller, Industrial Engineering, Master of Business Administration - Suffolk University.
- Thomas Minior, Computer Technology Engineering, Master of Science in Electrical Engineering, Computer Sciences-Northeastern University.
- John Cosio, Engineering Systems Standards (21510), Bachelor of Science in Industrial Technology-Northeastern University.
- John Cummings, Engineering Systems Standards (21550), Bachelor of Science in Industrial Technology-Northeastern University.
- Tony DeSimone, Engineering Systems Standards (21510), Bachelor of Science in Industrial Technology-Northeastern University.
- Charles Espinola, WTH, CMG-3, DR-18, N Carrier Development and Manufacturing Engineering, Bachelor of Science in Industrial Engineering-Merrimack College.
- James Grieco, New Development, Special Design Road and Non-Western Interface Transmission Product Engineering, Bachelor of Science in Industrial Engineering-Merrimack College.
- Clifford Hewett, WTH, CMG-3, DR-18, N Carrier Development and Manufacturing Engineering, Bachelor of Science in Industrial Engineering-Merrimack College.
- Carden LeBlanc, D3 Carrier Channel and Common Unit Manufacturing, Bachelor of Arts in English Literature-Merrimack College.
- Augustine Longo, Cost, Bulletin, and 14000 Storeroom Accounting Department, Bachelor of Science in Business Administration-Merrimack College.
- Robert Lyons, Industrial Engineering, Bachelor of Science in Industrial Engineering-Merrimack College.
- Fred Marchant, Quality Appraisal and Control, Bachelor of Science in Business Administration-Merrimack College.
- George Rembis, Jr., Engineering Systems Standards (21550), Bachelor of Science in Industrial Engineering-Merrimack College.
- Irv Witherell, New Development, Special Design Road and Non-Western Interface Transmission Product, Bachelor of Science in Electrical Engineering-Northeastern University.
- Joseph Bonenfant, Information Systems Development, Shop Information Systems, and Management Science, Associate of Science in Electrical Engineering-Merrimack College.
- John Campbell, Inspection Control, Associate of Science in Business Administration-Merrimack College.
- Charlie Dorr, Apparatus Production Service and Production Control, Associate of Science in Business Management-Northeastern University.
- Ed Gawrys, T4-M13-M34 Coaxdigital Line and Multiplex, Associate of Science in Business Management-Northern Essex Community College.



John Cummings, John Cosio, Tony DeSimone, and Charlie Dorr.



Charles Espinola, Clifford Hewett, James Grieco, and Irv Witherell.

Larry
McAdam



Robert Lyons
and George Rembis, Jr.



Richard Tracy, Jerry Ingham, and Joseph
Bonfant.

Richard
Lesiczka and
Augustine
Longo



Jerry Ingham, Accounting Results, Plant and Engineering Accounting, Associate of Science in Electrical Engineering-Merrimack College.

Gustavo Jiminez, Ferrite, Ferrite Development, Die Casting, Plastic Molding, Formed and Fabricated Parts, Heat Treating, Finishing, and Component Assemblies Engineering, Associate of Science in Chemical Technology-Lowell Institute of Technology.

Richard Lesiczka, Plant and Factory Engineering, Associate of Science in Engineering Technology-Lowell Institute of Technology.

June Lazos, D3 Carrier Channel and Common Unit Manufacturing, Associate of Science in Accounting-Merrimack College.

Larry McAdam, Transportation, Associate of Science in Business Management-Northern Essex Community College.

Richard Tracy, Tool Design and Numerical Control Programming, Associate of Science in Electrical Engineering-Merrimack College.

Bob Vaughan, Business Methods, Vouchering, and Procedural Reviews, Associate of Science in Business Administration-Merrimack College.

PUBLICITY - SHY NURSE HEROINE IN LAWRENCE BLAZE

Sandra Poulin doesn't like interviews. She doesn't like publicity.

She doesn't enjoy having her picture taken, especially for newspapers.

But on May 8 of last year, anyone who picked up the front page of the Lawrence Eagle Tribune saw Sandy's face, framed in curlers and illuminated by the flames of an early morning fire. Sandy had just helped save the lives of two of her neighbor's children.

Because of her action in the face of danger, Sandy has become the first person in the history of the Merrimack Valley Works to receive the Vail Award Medal, the Bell System's award for personal heroism. Since the award was established in 1920, AT&T had issued only 69 to Western Electric people as of last year. Sandy is the third woman. Her medal was cast in bronze.

Sandy's story begins at about 12:45 a.m. that night when her mother, Laura Gruber, arrived home from her job here on the second shift. Mrs. Gruber spotted what she thought might be a fire in a four-family house across the street and called her daughter. As she and Sandy peered out at what looked "like a candle flickering in the window," the entire window erupted in flames.

Sandy dashed from her own home, pulled the fire alarm, and ran towards the burning building where someone told her there were still people trapped in the building. As she dashed inside, a small boy ran in ahead of her saying his brother



Sandy Poulin and Sheryle Parolisi talk about the night of the fire which drove Sheryle and her son Ricky to leap to safety from the roof of their home. Sandy's Bronze Vail Medal is on the table between the two.

was still inside.

Sandy grabbed the youngster, pushed him outside to safety and reentered the building just as a hall door blew outward in a spray of flame and debris. Forced outside again, she ran to the side of the house where a man, woman, and small boy were on the porch above her. The man forced the woman, Mrs. Sheryle Parolisi, to jump to safety. Mrs. Parolisi was injured as she landed and was hospitalized within the hour. Sandy waited below the porch for the youngster, Ricky Bouchard, to jump.

Sandy describes what happened: "The boy was too scared to react to any kind of plan, so it was not a case of my standing there with my arms open for him to jump into them. I was trying to encourage him to jump, hoping that when he did, I would be in a position to save

him from hurting himself severely. He finally did come off the roof, and when I saw this happening, I ran and kind of threw my body out which fortunately coincided with his landing."

Sandy took both children home with her to stay the night, and set up a relief station in her own home for the firefighters.

Within a few days of breaking Ricky's landing, Sandy developed a serious problem with her knee buckling when she would stand for a long period.

The condition, attributed to an injury when catching Ricky, eventually forced Sandy to undergo surgery. She was out of work nearly seven weeks.

Why has it taken over a year to tell this story?

Sandra Poulin doesn't like publicity.

THE VAIL AWARD

The Vail Award Medals are presented to Bell System employees for unusual acts of bravery and public service along with cash awards from the Theodore N. Vail Memorial Fund. Theodore Vail served as AT&T's president during the years when the company grew to national stature.

The award medals, struck with a likeness of Vail and engraved with the name of the recipient, are issued in gold, silver, and bronze with cash awards of \$2,500, \$1,500, and \$750 respectively. Since the first Western Electric employee to receive a Vail medal was so honored in 1924, only two W.E. people have received the gold medal. As of January of this year, only 69 Western Electric people had received Vail awards.

Nominations for the Vail Award are made through the Benefits Organization. If you know of any MVW employee who has risked his or her life or safety in service to others, was instrumental in a rescue, or saved the life of another - please let the Benefits Department know.



Watch for the Annual UNITED FUND POSTER CONTEST

your youngsters
can win a \$25.00 Savings Bond

Details coming after the vacation shutdown, so get your kids thinking of ideas now. There will be an earlier deadline this year.

Anniversaries — from page 2

Name Dept. July
FIFTEEN YEARS

Oland J. Duff	27560	1
Esther C. Ryan	81450	2
Paul W. Jordan	81630	6
Dolores D. Garman	02320	9
Nancy L. Peterson	03660	9
Emily B. Jewell	12430	11
Madeleine M. Bouchard	14930	13
David N. Colson	12420	16
Diane C. Olivera	89610	16
Theodore E. King	89440	20
Allan R. Ralph	21960	21
Rita D. Shaw	89610	26
Arlene E. Asquith	89450	27
John R. Cosio	21510	27
Edwin H. Dickinson	12210	27
Elsie C. Gill	81640	27
Norman F. LaBelle	12420	27
Themous Perry	12330	27
Rita D. Braley	89350	28
William R. Hartung	12340	28
Florence M. LaPlante	89630	28
Cirino P. Sciacca	14180	29
Donald E. Therrien	12370	29
Frank W. Kotce	81810	30
Arthur C. Boisselle	89310	31
James O. Grieco	21930	31
David W. Hughes	81810	31

August Anniversaries

THIRTY-FIVE YEARS

Name Dept. Aug.		
Arthur C. Holman	21200	8
Thomas F. Quinlan, Jr.	89420	11

THIRTY YEARS

Josephine M. Buglione	89480	1
Joan K. Hart	89630	4
Arthur V. Currier	12340	7
William H. Kibler	03770	7
Isabelle E. Ciardello	14920	9
Albert J. Cote	89630	9
Gerard E. Huberdeau	14190	9
Harold L. Smith	12340	9
Norman A. Fontaine	89610	18
Maurice J. Ouellet	14160	19
Wanda M. Resvan	89620	19
Thomas C. Trombley	89430	21
Armand G. Lagasse	89480	23
Constantine R. Talarico	89430	25
Francis J. Lavallee	89670	31

Retirements



Alfio F. Vasta, a Layout Operator in the Multiple Wound and Spool Coil Department, C-56, will retire on July 31. Mr. Vasta, who has been with Western Electric for 27 years, lives on Meadow Lane in Atkinson, New Hampshire.



Dorothea B. Carrier retired on June 10 after 23 years with Western Electric. Mrs. Carrier was an Assembler in the Crystal Filter Department and lives on Woodstock Street in Seabrook, New Hampshire.



Robert Davidson will retire on July 31 after over 23 years of company service. Mr. Davidson is a Section Chief in the Tool Construction and Maintenance Department and lives on Lake Attatash in Amesbury.



Flora Z. Talarico, a Tester in the Miscellaneous Spool Coils, Filters Networks, and Equalizers C-62 Department, will retire on July 23. Mrs. Talarico lives on Shawmut Avenue in Bradford and has been with the company for 22 years.

Georgette S. Aspinall, a Bench Hand in the Coaxial Cord Department, will retire on July 19. Mrs. Aspinall has been with Western Electric for 22 years and lives on Water Street in North Andover. (photograph not available).

Lucille D. Ouellette of Monroe Avenue in Methuen retired on June 28. Mrs. Ouellette was an Assembler with L-4, L-5, Bay MMX-2 Panel and Bay A+W Inspection and Test Department and has 22 years of company service.

TWENTY-FIVE YEARS

Peter P. Ciapinsky	12340	10
Helen S. Towne	81840	23

TWENTY YEARS

Katherine C. Francis	89490	8
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Gertrude L. LeGacy will retire on July 19 after over 21 years of company service. Mrs. LeGacy is a Machine Operator in the Quartz Crystal Growing, Cutting, and Grinding Department and lives on Lincoln Street in Haverhill.

Alice T. Szelest will retire on July 29 after over 21 years of company service. Mrs. Szelest is a Coil Winder in the Small Toroidal Coil and Filter Department and lives on Edgeworth Street in Methuen. (Photograph not available).

BTL and Southern New England Boards of Directors Visit Works



The Bell Labs Board of Directors met last month here at the Works, visiting the Labs facilities and touring the MVW shops.

Here, some of the Board members stop and talk with Althea Hartig, Multiple Wound and Spool Coil Department - C-56, and examine her automatic winding machine.

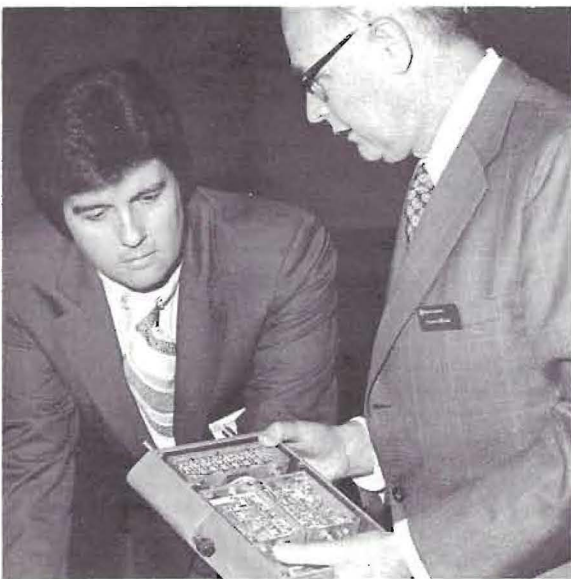
From left: Western Electric President Don Procknow; Bill Lindholm, Vice Chairman of the Board, AT&T; Bell Labs President Bill Baker; and AT&T President Bob Lilley.

WE Vice President Jim Hosford accompanies Ruth Sims of the Southern New England Telephone Company Board of Directors while Jane Christopher, A6 Monolithic Crystal Filter Department, explains operations in the A6 shop.

The SNET Board met here at the Works, watched a new product demonstration provided by WE's Service Division, and toured the shops before returning to New Haven, Connecticut.



"EYEWITNESS" GUEST STOPS BY AS NEWSMEN TOUR BELL COMPANIES



A BALANCED VIEW OF THE BELL SYSTEM is what the press was looking for, including WBZ-TV "Eyewitness" newsman Steve Schatz shown here talking with Dave Hilder and examining an L-5 repeater. Media people from across the state toured the Works, visited Bell Labs, and saw New England Telephone's 4A Installation in Lawrence.

Robin Orr Wins \$355 Award



Robin Orr (left) received a \$355 suggestion award from Assistant Manager Frank Orlando for a proposal to apply calculator programs to gold analysis and hardness data, saving time and eliminating random human error.

Robin works in the Special Projects, Electrical Standards and Electrical Measurements Laboratory, Physical, Chemical, and Mechanical Laboratory Services and Raw Materials Engineering Department.

GATTI'S GALLEY:

STRIP STEAKS FROM THE GRILL BEER BARBECUE SAUCE

Flame coals and allow them to smolder. Place steaks on barbecue grill over smoldering coals; grill to individual taste and serve with sauce.

BEER BARBECUE SAUCE

- 2 14 oz. bottles catsup
- 1 12 oz. bottle chili sauce
- 1/3 cup prepared mustard
- 2 tablespoons dry mustard
- 1 1/2 cups firmly packed brown sugar
- 2 tablespoons coarse, freshly ground pepper
- Dash tabasco

- 1 1/2 cups wine vinegar
- 1 cup fresh lemon juice
- 1/2 cup bottled thick steak sauce
- 1/4 cup Worcestershire
- 1 tablespoon soy sauce
- 2 tablespoon salad oil
- 1 12 oz. can of beer
- 1 garlic clove

Combine all ingredients except garlic. Mix well. Add garlic clove and store this way. Makes about three quarts. Pour into sterilized jars. Will keep indefinitely. May be frozen.

WE FUND AWARDS FOUR LOCAL SCHOLARSHIPS



WESTERN ELECTRIC FUND SCHOLARSHIP WINNERS visited the Works with their parents and received certificates of honor and the scholarship checks.

(from left) Clifton Lyons, son of Cliff Lyons, Intermediate and High Speed PCM Digital Picturephone® Development; David Hilder, son of General Manager Dave Hilder; Cynthia Burns, daughter of Bob Burns, Statistical Quality Control Engineering; and

Nathan Hine of Holden, Mass. Nathan is not related to any WE employees.

All WE employees' children who achieve finalist status in the National Merit competition are offered a four year scholarship by the Western Electric Fund. In addition, the Merit Foundation occasionally distributes scholarships provided by the Western Electric Fund to students not affiliated with WE.

Anniversaries — from page 7

Name	Dept.	Aug.
Lorraine J. Norton	89610	8
Barbara J. Trafton	81770	11
Richard I. Goodwin	89330	13
George J. McDonald	81780	20
Erwin W. Batchelder	12340	25
Eileen F. Doyle	81530	26
Edmund F. Sentkowski	14160	30

FIFTEEN YEARS

Name	Dept.	Aug.
Ernest J. Eno	12310	2
Charles E. Dunn	21970	3
Walter F. Fogg	12340	3
Robert E. Foster	89440	3
Walter Phillips	81520	3
Charles W. Reynolds	21910	3
Edgar J. Riel	81850	3

Name	Dept.	Aug.
Robert F. Stoehrer	89330	3
Peter P. Filocamo	27120	4
Donald R. Bevin	80470	10
Donald P. Jackman	27140	10
Robert J. Equi	12160	10
Edward T. Fleming	89330	10
Janice L. Snow	14150	10
Francoise A. Whittemore	42420	10
Lois M. McGarry	89350	17
Barry W. Townsend	24220	17
Anne P. Moro	14930	20
George V. Dirago	14160	24
Dorothy M. Nordengren	14570	24
Richard A. Prescott	12420	24
Estelle E. Skea	89440	24
Leigh M. Thaeler	21970	24
Rita G. Wallace	89440	24
Margaret M. Wheatly	81430	24
Thomas T. Mansfield	80470	25
Angela M. Ferrara	81590	26
Ruth M. Webster	81450	27
Margaret W. Raitt	89620	29
Stephen R. Bennett	89460	31
Wanda H. Connolly	81450	31
Kermit K. Cross	12380	31
Mary F. Kee	81740	31
Hermann J. Wuerdemann	21950	31

Beavers Win 1st MVW Volleyball Title



The Beavers came through the playoffs as the first MVW men's volleyball champs in a league of nine teams. The games were played at the Plains Community Center in Lawrence. Assistant Manager George Matthes presented the trophies to the team, all from the Intermediate and High Speed PCM Digital Picture-phone® Development Department with one exception.

From left: Dick Hutchinson, Rick Dodd, Dave Penkus, Facilities Planning and Manufacturing Systems Development, George, John Miller, George Ingram, Joe McClintock, and Ron Roberts. Team member George Forrest was not available for the picture.

What's Happening to Our Company

A FEW QUESTIONS AND ANSWERS

With all the stories concerning the Bell System, inter-connection of customer provided equipment and the certification of that equipment that has been circulating in magazines and newspapers across the country, we felt a few questions, and answers, and additional facts might help everyone understand the issue that faces AT&T and the operating telephone companies. And since the general public often doesn't differentiate among any Bell companies — even Western Electric, it might be a good idea to keep these answers in mind. They could come in handy some day when you're talking with someone who thinks that interconnection might be the best thing to give the Bell System a competitive shot in the arm.

What harm has been done to the telephone network by interconnection of customer-provided equipment?

By way of example, let's look at a couple of studies done recently. One study, first made during the first six months of 1972, and then through all of 1973, analyzed the effect of interconnection on the number of trouble reports in both the public switched network and private line service for voice, data and telegraph. A far greater rate of trouble reports was generated on serving links connected to at least one customer-provided terminal than on those with none. The rate in 1973 was about 70% higher on

private line serving links. More important to telephone users in general, a similar study for three months in 1973 found a trouble report rate about 30 percent higher for lines terminating in customer-provided equipment than for lines terminating in telephone company-provided equipment.

Another study involved signal power on private line data circuits. Tariffs specify maximum limits on the signal power of customer-provided equipment. In the study, we measured signal power on randomly-selected data terminals — of which 308 were provided by customers and 77 by the telephone company. We found that 8.5

percent of the customer-provided terminals were transmitting signals averaging *three times* stronger than specified in the tariff. Of the telephone company equipment, 2.4 percent exceeded the maximum allowable limit.

What actual kinds of service problems have resulted from interconnection of customer-provided equipment?

Problems such as cross-talk, uncompleted calls, wrong numbers, noise on the line, billing errors and even physical damage to Bell System equipment from hazardous voltages introduced by customer-provided equipment.

The Bell System interconnects with hundreds of independent telephone companies using a number of different types of phones. And they work. It would seem that certification, at least for the telephone itself, isn't even necessary. So why don't you permit interconnection of customer-provided telephones?

It is true that independent telephone companies use different sorts of phones. It is also true that those companies provide those phones to their customers under tariffs very

AND
HERE
ARE
SOME
TELEPHONE
FACTS
YOU CAN
USE TO
MAKE
YOUR POINT

Ninety-two percent of all homes in the United States have telephones, a result of the principle of pricing basic service at a level most people can afford. There are no comparable statistics for other countries available, but figures on telephones per 100 population show that among the world's industrialized nations only Sweden and Canada are anywhere near us in approaching universal telephone service.

Americans work fewer hours to pay for telephone service than any other people in the world. According to a recent U.S. Department of Commerce report, we work 26 hours a year to pay for our basic service, as compared to 175 hours in Japan and 179 hours in France.

The cost of living in the United States has gone up 55% since 1960, but local telephone rates on a nationwide basis have gone up only about 24%.

similar to our own. The reason they work is that one entity, the telephone industry, wherever located, has the statutory responsibility to see to it that they do. Each company has end-to-end responsibility in its service area, and each is responsible, under regulation, for the installation and maintenance of its equipment.

The marketplace weeds out inferior products. You can walk into any reliable store and buy complicated appliances which carry with them written guarantees of customer satisfaction. Wouldn't our system of competition in the marketplace make this process work for telephones, too?

Appliances such as TV sets, radios and toasters tap into a power source or receive a signal. They do not interact, as the telephone does, with all other similar appliances installed for others. If a TV set fails, the only one affected is the owner of the set.

Your telephone, in contrast, is an integral part of a complex interacting network which at any moment must be capable of providing rapid, efficient two-way communications service, involving some 7 million billion combinations of possible

telephone connections. If your set is defective in any way, it can affect the service of others.

Isn't the real reason why the Bell System opposes certification the fact that Western Electric would no longer have a stranglehold on the manufacturing of telephone instruments and would be faced with real competition for the first time?

The real issue is the need to control design and manufacturing standards, installation and maintenance to ensure product quality control, network compatibility, reliability and performance. In other words, end-to-end service responsibility. As good as it is, Western does not seek to supply the entire market with only its own products. In 1972, for example, Western Electric purchased about \$560 million of telecommunications equipment from others on behalf of the Bell System companies. The telephone companies themselves bought between \$200 and \$300 million more, directly from outside suppliers. We expect that in the years ahead the job of supplying the network will be even more broadly shared.

Western Electric's technical standards are a matter of public record.

If outside manufacturers could meet those admittedly high standards and were willing to assume the cost of a system for certifying the equipment, how could you still object to certification?

The question assumes far too much. First of all, we're not so stubborn as to believe that other manufacturers could not meet Western's standards. That's not the point. The problem remains that someone has to be responsible for end-to-end service. That includes control over equipment compatibility, installation, maintenance and repair. Certifying the equipment does not begin to address end-to-end responsibility.

Putting your concern about the "public interest" aside, isn't your major worry about certification the amount of money you'll lose to competitors?

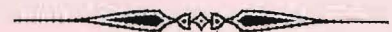
No. Our major worry about "certification" is the direct threat it poses to service quality and cost as the responsibility for service is fragmented. And that is why it is impossible to put the "public interest" aside. The potential revenue loss is important from the standpoint that it will cause everyone's basic home telephone rates to go up.

Interstate long distance rates are actually *lower* than 20 years ago. For example, the least expensive rate for a coast-to-coast call in 1954 was \$2.00. In 1974, a comparable call costs 70 cents.

The average revenue received from an interstate long distance call today is \$2.00; 52 cents of that amount helps to support lower rates for local telephone service.

There are more than 1,700 telephone companies in the United States. Twenty-three of them are part of the Bell System. Each of these companies serves all of the customers within its franchised area, and is responsible for maintaining not only customer equipment, but all of the transmission facilities that connect its equipment into the national network.

The United States' switched telephone network is made up of billions of sensitive parts, reaches 132 million telephones in this country, and is compatible with foreign systems that include the world's other 181 million telephones.



Kaleidoscope

Claimant's Word Good Enough as he pursues Case to End

The following true story is reprinted from a prominent London daily paper:

"A greengrocer's (man who sells fruit and vegetables) insurance company is to pay out on his claim that his dog ate £80 in fivers from the day's takings.

"Mr. Harold Gadd, 55, of North Hill, Wiveliscombe, Somerset, was called out to an emergency while counting the takings. When he returned, he found that his yellow Labrador, Jason, had munched through £80 in fivers and had started on a pile of £1 notes."

Mr. Gadd said: "I was absolutely horrified. I phoned a vet and was told there was no chance of getting the money back in one piece so for the next few days I followed Jason everywhere collecting evidence in a plastic bag.

"I thought the insurance assessors would want some sort of proof of what had happened but they have agreed to settle the claim on the strength of my till records."

Sharing Miles Saves Money

Got a compact car and think you're saving money? The Federal Highway Administration says that it costs one person driving 10 miles to work each way alone in a compact car \$9.50 per week . . . if you take two riders who share the expenses, it costs less than \$3.20.

Gabriel Sounds Trumpet over Telephone

A Michigan Bell operator, anxious to comply with the coin customer's request that she notify him when the first three minutes had passed, forgot the proper phrase and startled him with, "Sir, your time has come!"

Imagine the Taxes?

In 1900 the government employed fewer than one million people, or one for every 26 who worked in the private sector . . . in 1972 the ratio had changed to one for every 5.1 people employed privately.

If this trend continues, by the year 2000 there will be one public employee for every private employee . . . a "public servant" for every private worker.

Use the U/D - MS, go past the TRU and I'll meet you at the OSEC with the MMUD

TOPICS, the employee magazine published by New England Telephone, recently published an article on telephone language . . . the technical kind that falls somewhere between calculus and Swahili . . . and the author, a decidedly non-technical person named Candee Cutler, decided to apply the principles she discovered in deriving telephone company language to naming some common items around her office:

WATER FOUNTAIN - Thirst Reduction Unit (TRU)
ELEVATOR - Upward / Downward Mobility System (U/D - MS)
CAFETERIA - Optional Starvation Elimination Center (OSEC)
COMPANY DIRECTORY - Arbitrary Blame Assignment Manual (ABAM)

TYPEWRITER - Digitally-powered Work Reproduction Machine (DWRM)
FILE - Alphabetized Categorized Search System (ACSS)
STAPLER - Manual Multi-leaf Unification Device (MMUD)

Sorry - we don't stock Green Bean cans to replace Customer's own equipment.

When two girls wrote to the South Bend Tribune asking how to build a three-block long phone line with paper cups and string, the newspaper asked an Indiana Bell engineer for an answer . . . he replied . . . "Three blocks is too far for a paper cup telephone to carry sound vibrations . . . about 200 feet is the limit . . . I suggest you get some other girls to help set up relay stations every 200 feet . . . use nylon string . . . use tin cups instead of paper . . . a green bean can would be about right. As for the law, you really should have a permit to run a string above the street . . . avoid touching electrical wires."

"If your phone doesn't work . . . don't call your telephone repairman."

MERRIMACK VALLEY WORKS NEWSLETTER

Special Vacation Supplement



Do you like art, festivals, horses, square dancing, parades, Peter Rabbit, music, flowers, band concerts, sky diving, and re-enacted battles?

When you're travelling around the state this summer, you might want to visit one of these events:

July 13 A TWO DAY HORSE SHOW - the Eastern States Appaloosa Show, Eastern States Exposition Grounds, West Springfield - riding classes included. Begins at 8 a.m., admission free.

OUTDOOR ART SHOW at the Green in Westfield, 10 a.m. to 6 p.m., admission free.

July 14 ANTIQUE CAR SHOW - Heritage Plantation, Sandwich, 11 a.m. to 5 p.m., adults \$2, children under 12, 75 cents.

July 15 INVITATIONAL CRAFTSMEN FAIR - Wesley House Hotel, Oak Bluffs, Martha's Vineyard, 10 a.m. to 5 p.m. - 7 to 9 p.m. Admission free - craft items for sale.

ART EXHIBIT sponsored by the Provincetown Art Association, 160 Commercial Street, Provincetown. Runs until August 10, 1-6 p.m., admission 25 cents.

July 19 - 21 OLD HOME WEEKEND in Shirley. Square dancing, parade, and picnics - general admission, free.

July 20 JONES RIVER VILLAGE HISTORICAL SOCIETY FESTIVAL, Bradford House, Kingston. Day-long craft demonstrations, booths, produce, flowers, and a barbecue and square dance at 6 p.m. Admission free.

July 20 - 28 OUTDOOR ARTS AND CRAFTS SHOW, Heritage Plantation, Sandwich, 10 a.m. to 5 p.m. Adults \$2, children under 12, 75 cents.

July 21 DAY LILY SHOW at the Community Church, Dighton. Church also has an original Revere bell. 1 to 6 p.m., admission free.

July 23 - 27 NEW ENGLAND MORGAN HORSE SHOW, Three County Fairgrounds, Northampton. Classes, riding, driving, and dressage. Begins at 8 a.m., admission charged.

July 25 BAZAAR, St. Mary's Church, Rte. 6A, Barnstable, 10 a.m. to 1 p.m., admission free.

AUCTION, First United Methodist Church, Cross St., Chatham. Viewing at 9 a.m., bidding begins at 10; admission free.

July 25 - 28 PROFESSIONAL ART SHOW, Prudential Center, Boston, 10 a.m. to 11 p.m., Sunday, 11 a.m. to 6 p.m.; admission free.

July 27 FLOWER SHOW, Hemerocallis exhibition, Worcester County Horticultural Society, 30 Elm St., Worcester, 1 to 6 p.m. admission free.

SKY DIVING - Two days of the Parachuting Star Scrambles, Pepperell Airport, Pepperell. Teams of eight parachutists in competition during daylight hours. Admission free.

July 30 ANTIQUE SHOW AND SALE, Belleville Congregational Church, Newburyport, 10 a.m. to 6 p.m.; admission \$1.

July 31 - August 1 ANNUAL SALE OF USED BOOKS, First United Methodist Church, Cross St., Chatham, 10 a.m. to 9 p.m., admission free.

August 1 ARTISTS AND CRAFTSMEN'S GUILD OF THE OUTER CAPE FAIR, Orleans Center, 10 a.m. to 5 p.m., admission free - rain date, Aug. 2.

August 2 - 7 CELEBRATION OF THE FEAST OF THE BLESSED SACRAMENT, Madeira Field, New Bedford. Portuguese celebration, procession, games, food. General admission free.

August 3 HORSE SHOW, Fairgrounds, West Tisbury, Martha's Vineyard - saddle horses, 9 a.m. to 6 p.m., admission \$1.

August 4 - 6 CAPE COD ANTIQUES EXPOSITION Nauset Regional Middle School, Rte. 28, Orleans, 1 to 10 p.m., adults \$1.50, children under 12, free.

August 4 - 11 HOMECOMING WEEK, BEVERLY. Feasts, fireworks, and frisbees. For information call the Beverly Chamber of Commerce.

August 7 SUMMER SALE AND LUNCHEON, First Congregational Church, Great Barrington, 10 a.m. to 5 p.m., admission free.

SOCIETY OF CAPE COD CRAFTSMEN FAIR, two days, elementary school, Rte. 6A, Brewster, 10 a.m. to 6 p.m., admission free.

August 8 - 10 THORNTON W. BURGESS CENTENNIAL CELEBRATION, Sandwich. Honors the creator of Peter Rabbit. Activities: pet show, Thursday at 10 a.m.; opening of the Briar Patch and nature trails at 1 p.m.; band concert at 7:30 p.m.; Friday, a musical about Burgess at 7:30 p.m.; Saturday, a parade at 10 a.m. Nominal

Massachusetts Vacations for '74

While there may be enough gasoline to get you where you want to go this summer, there's always the problem of what to do - after you spend your life's savings on that last fill-up.

Seriously, for people who want to enjoy the summer close to home - here's the annual MVW NEWSLETTER Vacation Supplement; focusing on our home state of Massachusetts. Our thanks to Mr. James Keeney of the Massachusetts Department of Commerce and Development for his invaluable assistance in preparing this booklet. We hope that the information will help you enjoy yourself during shutdown and the rest of the summertime. Anyone who wishes copies of last year's camping supplement can pick them up in the Public Relations office (room 2L - 7).

Have a good vacation, wherever you go.

The Editor

fees for some events.

August 10 WESTERN HORSE SHOW, Fairgrounds, West Tisbury, Martha's Vineyard, 9 a.m. to 6 p.m., admission \$1.

THE GREAT SCHOONER RACE, Inner Harbor, Gloucester, 8 a.m. to 6 p.m.; admission free.

August 11 - 18 SALEM HERITAGE DAYS, decorated boat parade, circus acts, fireworks, theater, road race, band concerts, supper on the common on Wednesday for \$2. Parade on the 18th.

August 11 - September 2 ART EXHIBIT, Provincetown Art Association, 160 Commercial St., Provincetown, 1 - 6 p.m., admission 25 cents.

August 15 YOUNG PEOPLE'S FLOWER SHOW AND GLADIOLUS EXHIBITION, 30 Elm St., Worcester, 2 - 8 p.m., admission free.

August 15 - 18 CHATHAM FESTIVAL OF THE ARTS, Chatham Chorale, Thursday at 8 p.m.; arts and craft fair, Chase Park on Friday; band concerts on the weekend; admission free.

PROFESSIONAL ART SHOW, Cape Cod Mall, Hyannis, 10 a.m. to 10 p.m., Sunday, 11 a.m. to 6 p.m.; admission free.

August 17 LITTLE CRAFT FAIR, Burnham Hall, 132 Main St., Wenham, 11 a.m. to 6 p.m.; adults 50 cents, children 10 cents.

August 17 - 18 ANNUAL CHARITY HORSE SHOW, Great Common, New Castle. Standard show events. 8 a.m. to 5 p.m., admission \$1.

August 24 LONG PLAIN PEACH FESTIVAL, United Methodist Church, Route 105, Acushnet. Lunch, bazaar, and auction. Nominal charge for lunch, admission free.

August 24 - 26 NEW ENGLAND ARTS FESTIVAL, Cambridge Common, Cambridge. For details call Polyarts, 492-2900.

August 27 - 28 ANTIQUES EXHIBIT AND SALE, Congregational Church, 25 Great Rd., Bedford. Admission \$1.25.

September 1 - October 27 WACHUSETT WHEELMEN FALL SERIES BICYCLE RACES, Fort Devens. Races on a two mile course every Sunday, beginning at 1 p.m. Admission free.

September 7 HARVEST FESTIVAL, Captain Bangs Hallet House, 2 Strawberry

continued on page after next

The Twelve Vacation Regions of Massachusetts

THE BERKSHIRE HILLS

An area of wooded hills and secluded lakes, The Berkshires include sixteen state parks encompassing 80,000 acres of forest.

For sportsmen, the area boasts 90 lakes and ponds, 274 trout streams, fourteen golf courses, numerous tennis courts, woodland trails, and miles of country roads for the horseman. Accommodations run from modest inns and motels to luxury tourist facilities. The area abounds in gift and antique shops. Autumn and winter vacationers will find the hunting excellent, and sports like tobogganing, sleigh-riding, indoor and outdoor ice skating, snowmobiling and dog sled racing prevalent. Of course, the Berkshires offer downhill skiing—20 different areas.

And of course, a summer vacation in the Berkshires can't help but include the music of the Boston Symphony at Tanglewood . . . a schedule of the remaining summer program is on the last page of this supplement.

THE MOHAWK TRAIL

This famous route was actually blazed through the wilderness centuries ago by the Mohawk tribe -- and spans 63 miles from the New York State line to Millers Falls on the Connecticut River.

Like the Berkshires, this area boasts many natural splendors -- protected in 50,000 acres of state parks. Landmarks along the trail include Williams College, the Hopkins Observatory, the Bridge of Flowers, a collection of private colonial museums in old Deerfield, the French King Bridge, and numerous Indian battlegrounds. In a more modern vein, the town of Orange is the sport parachuting capital of the country.

For the winter vacation, the communities along the winding trail have as complete an offering of snow sports as anywhere.

THE PIONEER VALLEY

East of the Berkshires the Pioneer Valley is still in the Western regions of the Commonwealth. A tobacco growing region, the Valley was settled in the 17th century by colonists who found a home close to the meanderings of the Connecticut river. What they also found was a hundred years of war with the French and Indians. Like all of Massachusetts, the Pioneer Valley is rich in pre-revolutionary tradition and landmarks.

While the valley embraces 50,000 acres of state parks, it also features the city of Springfield, a true metropolis. Vacationers may be interested in visiting Springfield's Basketball Hall of Fame which displays everything about the sport from the original basket to a cathedral of stars, or dropping by the Springfield Arsenal, now a museum of both American and foreign militaria - from muskets to machine guns.

CENTRAL MASSACHUSETTS

A region of historic farm towns in the hills, and old mill towns in the river valleys, central Massachusetts is often called "the heartland of the Commonwealth". The area stretches from the Pioneer Valley to the fringes of metropolitan Boston and includes all of Worcester County.

Central Massachusetts has more than 115,000 acres of public recreational lands and waters preserved in federal, state, and private areas. The Quabbin Reservoir with over 25,000 acres of water is also in this area, near Mt. Wachusett.

Other attractions include the recreational facilities at Lake Quinsigamond, Worcester, famous for its intercollegiate crew races and olympic trials, and Old Sturbridge Village where the America of 150 years ago has been restored and reproduced for visitors from anywhere from next door to around the world to enjoy.

MINUTEMAN COUNTRY

Middlesex and Norfolk Countries include many of the state's oldest towns where the nation was born in the first bloodshed of the Revolution. The Concord Bridge, the route of Paul Revere from Lexington to Concord, and the Minuteman Historical Park offer a view of living history which no American should miss.

Walden Pond, where Thoreau gathered personal solace and inspiration for his famous volume WALDEN, is also in Minuteman Country, and an additional 30,000 acres of recreational areas are suitable for a kaleidoscope of outdoor fun, for both summer and winter vacationers. Many nearby communities display their own pieces of our history, like in Norfolk County which boasts the birthplaces of three presidents, John Adams, John Quincy Adams, and John F. Kennedy (now a national historic site).

Minuteman Country offers a blend of recreation to appeal to everyone, from summer theater to dog and harness racing.

BOSTON

Not much need be said of Boston as a tourist town -- except to remind its neighbors who look upon it only as a center of commerce, that today's Boston blends an amazing dualism of past and present in a combination that spells fun for the vacationer.

Look for the old Boston, nestled among the skyscrapers, with its restored buildings, historical sites, theaters, museums, educational centers, and restaurants.

BRISTOL COUNTY ON THE SOUTH SHORE

New Bedford, once the whaling capital of the world, and now the world's leading scallop port, will bring you closer to the image of "salty" New England than any other place in the state . . . Its famed whaling museum with a half scale whaler, and the Moby Dick trail offer paths backward in time to the days when men danced to the sea shanty, and lived by the thrust of the harpoon.

Fall River offers a more modern, but fearsome view of the sea in "Big Mamie," the battleship Massachusetts still docked in her port.

Bristol County should also appeal to the golfer with as many as seven courses in one town, Rehoborn, with a population of only 10,000.

Narragansett Bay offers sailing, Raynham and Taunton feature racing, and the local beaches are perfect for surfing.

PLYMOUTH AND THE SOUTH SHORE

Still a small town, Plymouth brings to life the legends of our first settlers' ordeals and triumphs. And if you have already walked the paths of the Pilgrims and seen the Mayflower II and Plymouth Plantation, Plymouth still offers bathing, fishing, golfing, horseback riding, hiking, and picnicking, as well as summer theater, antiques, and an unspoiled countryside.

Nearby towns like Kingston, Hingham, Scituate, and Manomet offer a quiet, easily paced vacation refuge, as the inland regions offer gentle greenery still within reach of a sea breeze.

And finally, South Carver and its cranberry bogs is also the home of the Edaville Railroad, a miniature steam train that chugs its way around a five and a half mile, two-gauge track.

CAPE COD

The Cape has 300 miles of coastline, harbors, and beaches with innumerable resorts and accommodations.

Water sports abound, not only offshore, but in over 300 freshwater ponds. Cape Cod also has 22 golf courses, more artists than Greenwich Village, fifteen summer theaters, and is one of the richest sources of antiques in the country.

The Cape Cod National Seashore encompasses nearly 25,000 acres to explore - however, if you wish to camp, it must be outside of the reservation.

And if you like to eat - Cape Cod restaurants of every variety make a summer profession out of pleasing the palates of guests from around the world.

MARTHA'S VINEYARD

Only 45 minutes sail from Woods Hole, the Vineyard was supposedly named by Bartholomew Gosnold for his daughter and the profusion of wild grapes he found growing on the island. The entire island is only 25 miles long.

A center of sport fishing, the Vineyard has four tides so that the fisherman can move around the island, around the clock, for mackerel, tuna, marlin, bluefish, and stripers. Small craft can be rented from several sources.

The Vineyard towns also offer tennis, golf, and bicycling, as each community caters to the tourist trade. Shops and museums offer activity on occasionally rainy days. And if 45 minutes by boat is too long a trip, there is air service from Boston.

NANTUCKET

An island brushed by the Gulf Stream, Nantucket has waters with a normal temperature of 70 degrees.

Once a famous whaling port, Nantucket Town, with its cobblestoned main street, is a direct link to the eighteenth century ships' masters who were the backbone of the community. A visit to the whaling museum highlights a visit to Nantucket Town.

The island was purchased in 1659 for "30 pounds and two beaver hats" by settlers who sought sanctuary from the harsh Puritanism of the mainland.

Sailing, swimming, fishing, tennis, or just walking through the rolling heathland takes up Nantucket days, while movies, summer theaters, and dining occupy a visitor's evenings.

ESSEX - THE NORTH SHORE

Just as a prophet is often without honor in his own country, the beauty of Essex County is often wasted upon those of us who live and work here.

Yet Cape Ann, Gloucester, Rockport, Salem, Newburyport, Ipswich, Essex, Marblehead, Swampscott and the rest of the county's 35 cities and towns draw tens of thousands of tourists annually who approach our own backyard as something new and different.

For someone who wants to stay close to home, Essex County offers unparalleled dining, short motor trips, boating, fishing, bathing, and a plethora of cultural and historical attractions.

A heritage we are too busy to notice flourishes around us while local attractions and recreational facilities often seem mundane because they are closer than other resort areas.

For summer fun you don't have to travel far from home.

Calendar of Massachusetts Events - continued

Lane, Yarmouth Port. Adults 50 cents, children 25 cents.

September 7 - 8 ATTACK ON BEDFORD HARBOR, CELEBRATION AND RE-ENACTMENT. Re-enactment on Saturday, parade and colonial muster on Sunday. Admission free.

September 11 - 13 CAPE COD HOSPITAL AID, NORTH BRANCH, ANTIQUES SHOW, St. Mary's Church, Rte. 6A, Barnstable. Admission \$1.75.

September 12 DAHLIA EXHIBITION, 30 Elm St., Worcester, 2 - 8 p.m., admission free.

September 12 - 14 ANNUAL ANTIQUES SHOW, Lexington Arts and Crafts Society, 130 Waltham St., Lexington, 1 - 9:30 p.m., Saturday until 6. Admission \$1.50.

September 12 - 15 PROFESSIONAL CRAFT AND SCULPTOR SHOW, Prudential Center, Boston, 10 a.m. to 10 p.m., Sunday 11 a.m. to 6 p.m., admission free.

September 19 - 22 PROFESSIONAL ART SHOW, Natick Mall, Natick, 10 a.m. to 10 p.m., Sunday 11 a.m. to 6 p.m. Admission free.

Where to bicycle?

THE BOSTON GREEN BELT BIKEWAY

A seven-mile trail stretching from the Boston Common along the Commonwealth Ave. Mall, Park Drive, Riverway, Jamaica Way, Jamaica Pond, Arnold Arboretum Arborway, and Forest Hills Drive to Franklin Park. Well marked with Green Belt Bikeway Signs. Bicycling is also popular along both sides of the Charles River in Boston and Cambridge.

THE CAPE COD NATIONAL SEASHORE

Several miles of paved bicycle trails through the Cape Cod National Seashore. Bike rentals are available. Write the Cape Cod National Seashore, National Park Service, South Wellfleet, Mass., 02663.

MARTHA'S VINEYARD

There are bicycle paths paralleling the highways between Oak Bluffs and Edgartown and between Edgartown and West Tisbury. Bicycle rentals are available. Vineyard Vehicle Rentals, Inc., Vineyard Haven at the corner of Water and Beach Sts. Oak Bluffs at the triangle. Telephone 693-0085.

NANTUCKET

A seven-mile protected bike path parallels the road from Nantucket to Siasconset. All of the out-of-town roads are hard surfaced offering alternate routes to the villages of Madaket, Surfside, Polpis, Quidnet, and Wauwinet. There are also trails through the pines and over the commons leading to the valleys of the interior, the ponds, the ocean, or still-water beaches of the island shores. Bike rentals available at Young's Bicycle Shop, Steamboat Wharf, Telephone 228-1151.

Bicycling is not permitted on the Mass. Turnpike and limited access highways in Massachusetts. Cyclists are advised to use secondary roads and alternate routes with the letter A after the route number.

More information on cycling can be found in the *North American Bicycle Atlas*, New York, N.Y. 10011 and from the Bicycle Institute of America, Inc., 122 East 42nd St., New York, N.Y., 10017

TROUT FISHING

Each year more than 900,000 trout are released in Massachusetts waters - 60 percent of them are nine inches or longer at the time of stocking while the remaining 40 percent are over six inches.

This program, combined with the headwater streams that support native populations of brook and brown trout, make Massachusetts an ideal place to enjoy fishing.

And to tell you where the fish are, you can get a booklet, STOCKED TROUT WATERS IN MASSACHUSETTS, from the Massachusetts Fish and Game Field Headquarters, Route 135, Westboro, Mass., 01581 which lists over 660 stocked lakes, ponds, rivers, and streams.

September 22 - 24 OLD COLONY ANTIQUES EXPOSITION, Old Colony Tennis Club, Route 3, South Hingham, 1 - 10 p.m. Adults \$1.50, children under 12, free.

September 29 CROWN RESISTANCE DAY, Acton - Boxborough Junior High School, Acton. Colonial Minutemen muster and parade, 1 - 5 p.m., admission free.

ANNUAL FALL CLAMBAKE, West Dighton Congregational Church, 2703 Horton Street, North Dighton. Adults \$6, children under 12, \$4.50. For reservations call 252-4688.

HOW ABOUT FAIRS?

There are 19 major fairs in Massachusetts between now and October -- Why not make some of them part of your Massachusetts summer fun?

- BARNSTABLE COUNTY**, July 25 - 28, Rte. 151, Falmouth
- LITTLEVILLE FAIR ASSOCIATION**, August 2 - 4, Kinne Brook Rd., Chester
- MARTHA'S VINEYARD AGRICULTURAL SOCIETY**, August 8 - 10, West Tisbury
- HIGHLAND AGRICULTURAL SOCIETY**, August 9 - 11, Bell Rd., Middlefield
- HEATH AGRICULTURAL SOCIETY**, August 16 - 18, Colrain Stage Rd., Heath
- WESTFIELD FAIR ASSOCIATION**, August 16 - 18, Russellville Rd., Westfield
- MARSHFIELD AGRICULTURAL & HORTICULTURAL SOCIETY**, August 17 - 25, Main Street, Marshfield
- HILLSIDE AGRICULTURAL SOCIETY**, August 23 - 25, Cummington
- SPENCER AGRICULTURAL SOCIETY**, August 30 - September 2, Spencer
- UNION AGRICULTURAL & HORTICULTURAL SOCIETY**, August 31 - September 2, North St., Blandford
- REHOBOTH FAIR, INC.**, August 31 - September 10, William St., Dighton
- HAMPSHIRE, FRANKLIN & HAMPDEN AGRICULTURAL SOCIETY**, September 2 - 7, Bridge St., Northampton
- WEYMOUTH AGRICULTURAL AND INDUSTRIAL SOCIETY**, September 2 - 15, Foxboro, Rte. 1
- FRANKLIN COUNTY AGRICULTURAL SOCIETY**, September 6 - 9, Wisdom Way, Greenfield
- BARRINGTON FAIR ASSOCIATION**, September 8 - 14, So. Main St., Great Barrington
- EASTERN STATES EXPOSITION**, September 13 - 22, West Springfield
- FOXBORO FAIR, INC.**, September 17 - 29, Bay State Rcw., Rte. 1, Foxboro
- BERKSHIRE COUNTY FAIR**, September 18 - 23, Berkshire Downs, Hancock
- ESSEX AGRICULTURAL SOCIETY**, September 28 - October 6, Rte. 1, Topsfield

For Further Information

Further information on lodging, facilities, and tourist attractions in Massachusetts may be obtained from:

- MASSACHUSETTS DEPARTMENT OF COMMERCE & DEVELOPMENT**, Division of Tourism, 100 Cambridge Street, Boston, Mass. 02202, 727-3201.
- BERKSHIRE HILLS CONFERENCE**, 107 South St., Pittsfield, Mass. 01201, 1-413-443-9187.
- GREATER BOSTON CHAMBER OF COMMERCE**, 125 High Street, Boston, Mass. 02110, 426-1250.
- BRISTOL COUNTY DEVELOPMENT COUNCIL**, 154 N. Main Street, Fall River, Mass. 02722, 676-1026.
- CAPE COD CHAMBER OF COMMERCE**, Hyannis, Mass. 02601, 362-3225.
- CENTRAL MASSACHUSETTS TOURIST COUNCIL**, Suite 350, Mechanics Tower, 100 Front St., Worcester, Mass. 01608, 753-2924.
- ESSEX COUNTY TOURIST COUNCIL**, P. O. Box 756, Salem, Mass., 01970, 388-1603.
- MARTHA'S VINEYARD CHAMBER OF COMMERCE**, Vineyard Haven, Mass. 02568, 288-1700.
- MOHAWK TRAIL ASSOCIATION**, Charlemont, Mass. 01339, 1-413-339-4962.
- NANTUCKET CHAMBER OF COMMERCE**, Nantucket, Mass. 02554, 228-1700.
- NORFOLK COUNTY TOURIST COUNCIL**, 14 Lantern Lane, Weymouth, Mass. 02188, 355-7909.
- PIONEER VALLEY ASSOCIATION**, 333 Prospect St., Northampton, Mass. 01060, 1-413-586-0321.
- PLYMOUTH CHAMBER OF COMMERCE**, 65 Main St., Plymouth, Mass. 02360, 746-3377.
- PLYMOUTH COUNTY DEVELOPMENT COUNCIL**, 363 Oldham St., Pembroke, Mass. 02359, 293-7370.

TANGLEWOOD

The Berkshire Festival Concerts in Lenox, Mass.

WEEKEND PRELUDES at 7 p.m. on Fridays, two hours before the Boston Symphony concert present guest artists and members of the Orchestra in short recitals offered at no extra charge to Friday evening ticket holders.

Reserved tickets are \$5.00 to \$9.00 - available through Ticketron or the Festival Ticket Office at Tanglewood (637-1600). Tickets to the lawn, \$3.50, sold two hours before each concert.

OPEN REHEARSAL in the Shed each Saturday morning at 10:30 a.m. Seats are unreserved \$3 each, and available the morning of the rehearsal.

SECOND WEEKEND

July 12	July 13	July 14
7 p.m. Weekend Prelude Andrew Clarke organ	10:30 a.m. Open Rehearsal 8:30 p.m. EUGEN JOCHUM-MOZART PROGRAM	2:30 p.m. KARL RICHTER-BACH PROGRAM

THIRD WEEKEND

July 19	July 20	July 21
7 p.m. Weekend Prelude Raymond Lewenthal piano	10:30 a.m. Open Rehearsal 8:30 p.m. EUGEN JOCHUM-SCHUBERT and BRAHMS PROGRAM	2:30 p.m. LEONARD BERNSTEIN-MAHLER, HINDEMITH, RAVEL, and TCHAIKOVSKY

FOURTH WEEKEND

July 26	July 27	July 28
2:30, 6:00, 7:00, 9:30 p.m. THE KOUSSEVITZKY CENTENNIAL	10:30 a.m. Open Rehearsal 8:30 p.m. EUGENE ORMANDY-HARRIS, DEBUSSY, and BARTOK.	2:30 p.m. BERNARD HAITINK-BRAHMS, HAYDN, and SIBELIUS.

FIFTH WEEKEND

August 2	August 3	August 4
7 p.m. Weekend Prelude Alexis Weissenberg piano	10:30 a.m. Open Rehearsal 8:30 p.m. BERNARD HAITINK-BEETHOVEN PROGRAM	2:30 p.m. FERDINAND LEITNER-BEETHOVEN PROGRAM

SIXTH WEEKEND

August 9	August 10	August 11
7 p.m. Weekend Prelude New England Conservatory Ragtime Ensemble- Gunter Schuller, Conductor	10:30 a.m. Open Rehearsal 8:30 p.m. SEIJI OZAWA-BRITTEN and MAHLER	2:30 p.m. GUNTHER SCHULLER-HONEGGER, STRAUSS, and JOPLIN
9 p.m. ARTHUR FIEDLER-GERSHWIN PROGRAM		

SEVENTH WEEKEND

August 16	August 17	August 18
7 p.m. Weekend Prelude Stuart Burrows tenor	10:30 a.m. Open Rehearsal 8:30 p.m. SEIJI OZAWA-TCHAIKOVSKY program	2:30 p.m. MICHAEL TILSON THOMAS-TCHAIKOVSKY PROGRAM
9 p.m. SEIJI OZAWA-TCHAIKOVSKY PROGRAM		

EIGHTH WEEKEND

August 23	August 24	August 25
7 p.m. Weekend Prelude Tanglewood Festival Chorus, John Oliver, Conductor	10:30 a.m. Open Rehearsal 8:30 p.m. SEIJI OZAWA-SCHOENBERG and STRAVINSKY	2:30 p.m. SEIJI OZAWA-SCHOENBERG
9 p.m. SEIJI OZAWA-SCHOENBERG and BRAHMS		

In addition - ARTHUR FIEDLER AND THE BOSTON POPS will play on Tuesday, August 13, at 8:30 p.m.

Founded in 1934, the Berkshire Festival at Tanglewood is this country's oldest major festival of music. Tanglewood is an estate of 210 acres which has become world famous as the summer home of the Boston Symphony, its Berkshire Festival and its unique Berkshire Music Center. Nathaniel Hawthorne lived on the Tanglewood grounds and wrote that he could barely work in the presence of such scenic beauty. It is nearly unchanged today.

- MASSACHUSETTS HOTEL/MOTEL ASSOCIATION**, 73 Tremont St., Boston, Mass. 02108, 227-1616.
- MASSACHUSETTS RESTAURANT ASSOCIATION**, 825 Washington St., Newton, Mass. 02160, 969-3140.