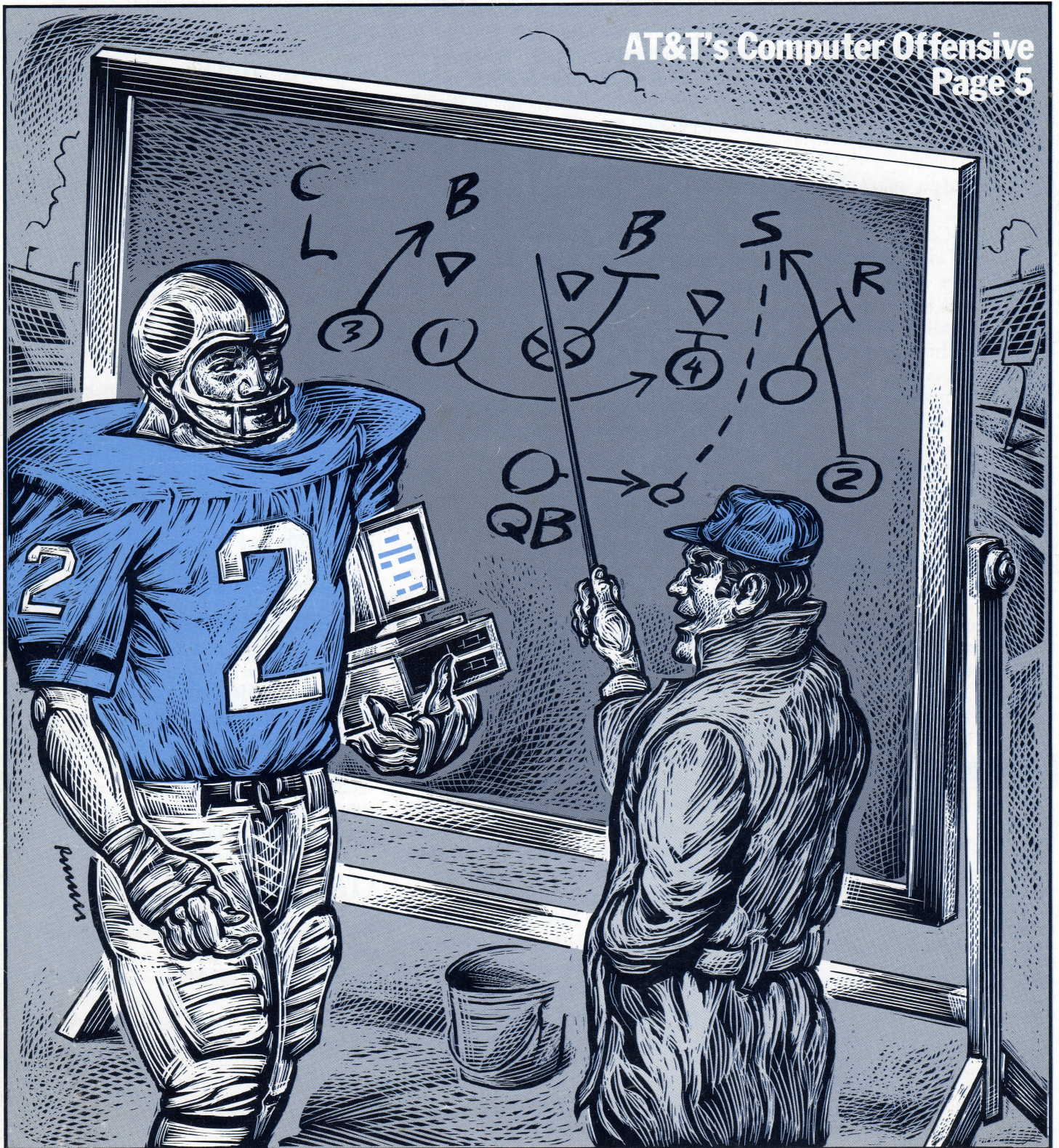


AT&T *Encore*

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Monopoly and Competition Don't Mix

Judge Harold H. Greene's latest ruling on proposed modifications to the agreement that broke up the Bell System limits the role of the regional companies and provides more consumer benefits.

The decision, called a clear victory for consumers by the Consumer Federation of America, left intact the provisions of the decree that bar the local exchange companies from entering the equipment manufacturing business and the long-distance business, either inside or outside the regions where they control local exchange service.

At the same time, the judge allowed local exchange companies to participate in the information services market by transmitting, over their own facilities, information provided and generated by others. He also freed the regional holding companies to enter other, non-telecommunications lines of business without prior approval from the court.

AT&T is satisfied the decision is the right one, promoting healthy competition and much-needed stability in the telecommunications industry. ■

A Danish Partner

AT&T recently teamed up with Denmark's Nordic Cable & Wire (NKT) to form LYCOM, a joint venture. LYCOM, based in Broendby, a Copenhagen suburb, has given AT&T a much-needed entree into Nordic and European markets.

LYCOM's goal is to be a major European manufacturer and supplier of optical fiber for telecommunications and related fields.

While AT&T gains immediate entree into the European marketplace, NKT benefits from a transfer of AT&T fiber manufacturing technology and Bell Labs' fiber optic

designs. And the venture helps spread research and design expenses for both partners.

LYCOM will complement the optical-fiber manufacturing capacity of AT&T's Network Systems division's Atlanta Works. ■

AT&T Gets the Highest Marks

Electronic Business magazine (Sept. 15, 1987) asked its readers to select the best companies in the electronics industry. They voted AT&T the best in the communications category. Some notable achievements include: strong long-distance revenue; the merger of various groups into AT&T's Federal Systems division (which now handles all government products and services); aggressive movement into international markets; and equity investments and marketing agreements with leading European and Far Eastern companies. ■

A Very Special Message

"Special Needs, Special People," featuring Academy Award-winning actress Marlee Matlin, is one of AT&T's newest "infomercials."

Matlin, who is deaf, uses sign language to explain problems hearing-impaired and disabled people can have using the phone. Hearing-impaired and disabled people whose telephone problems have been solved by the AT&T National Special Needs center are also interviewed.

The infomercial appears on national cable television networks, including Cable News Network, USA network, Arts & Entertainment and the Silent Network (programming for the deaf). ■

AT&T's at the MET

New York City's Metropolitan Museum of Art and AT&T have announced "AT&T Portfolio Tour of the Met." The series of

four self-guided thematic tours—narrated by celebrated hosts—move visitors through the museum to view objects bound by a common theme.

“Masterpieces of the Met” (Oct. 20 to Dec. 13), narrated by Metropolitan Museum director Philippe de Montebello; “Animals at the Met” (Jan. 5 to Feb. 21), narrated by comedian Steve Martin; “Historic Moments in Art” (Mar. 1 to Apr. 17), narrated by news correspondent Walter Cronkite; and “Music in Art” (Apr. 26 to June 12), narrated by New York City Opera General Director Beverly Sills, are available at a price of \$20 for all four tours. To obtain a subscription, call 1-800-635-5355. ■

Testing, Testing...

Some lucky travelers can preview a service AT&T is testing in 10 major airports.

Using specially modified AT&T public phone sets, subscribers to participating electronic mail services, besides checking their messages, can review flight schedules and make reservations with selected airlines, and reserve cars with selected rental companies.

AT&T is testing the service at airports in Atlanta, Chicago, Dallas-Fort Worth, Denver, Los Angeles, Minneapolis-St. Paul, Newark, N.J., Phoenix, St. Louis and San Francisco. ■

AT&T is Shipshape with the Navy

The U.S. Navy awarded AT&T an exclusive contract recently to provide public phone service and equipment on naval bases located in Bell operating territory.

More than 8,600 coin and coinless phones will be affected on 54 bases nationwide. The one-year contract—with options for four one-year extensions—will generate \$55 million annually for AT&T long-distance revenue. ■

Boston Bid

AT&T defeated two tough competitors, IBM and DEC, to win a contract with the Massachusetts House of Representatives for an office automation system.

The contract consists of several installation phases and includes AT&T 3B2 processors and AT&T PC6300 computers. The equipment will be used primarily in a stand-alone office automation system with software packages that include the Office Telesystem, Informix, Access 20/20 and Crystalwriter Plus.

AT&T hopes to win additional sales of this kind to other Massachusetts government offices such as the Senate and the governor's and the treasurer's offices. ■

Overseas Call Surcharge to Fall

In a move to reduce excessive surcharges on overseas telephone calls, AT&T has announced a plan to make it cheaper to phone the United States from abroad. The plan limits to \$1 the surcharge on calls made from particular hotels.

Under the new Teleplan program, travelers will be able to save on surcharges that sometimes run three times as much as the call itself.

Judy Arenstein, AT&T international marketing manager, says that many Americans who were unaware of the surcharge practice were angry when they got their hotel bills. She cited a doctor who was billed \$159 for a \$57 call from Paris to Los Angeles. Arenstein also says an AT&T executive staying at a hotel in New Delhi made a series of international calls from his hotel room and was charged \$1000—half of which covered surcharges.

Now, however, travelers can bypass hotel and overseas operators by using their AT&T Cards to dial direct from many countries. Travelers can also use designated direct-dial telephones at airports, seaport cruise docks, U.S. military bases and at public telephone calling centers in 23 countries. ■

This issue does not include the all-employee quarterly edition of *Focus* we initially planned to include with *Encore*. As part of the continuing effort to cut costs, the quarterly issue has been discontinued for all employees. *At&T Encore*, however, will continue to keep you up to date on news and issues facing AT&T, in addition to information of specific interest to AT&T retirees.



ROBERT ZIMMERMAN

Hatching Small Businesses

Each year, thousands of people start small businesses. Within 24 months, 80 percent of those fail. But when small businesses start in a business incubator—a program to nurture new companies through that critical first two years—80 percent of them succeed.

AT&T's external affairs organization had been studying business incubators (generally local or state-sponsored projects that function in a number of cities) with an eye toward participation when Kansas City's booming incubator program came to its attention. The incubator, currently serving 23 businesses, needed space for expansion.

The company came to the rescue via its general business systems organization. AT&T will furnish the space in a building it leases, make a *Merlin*® electronic key telephone system available to five incubator companies and take an active role in the program by joining the tenant-selection committee. ■

News Bits...

In case you missed it, Sept. 11 (9-11) was the first national 9-1-1 Emergency Number Day. AT&T developed the communications

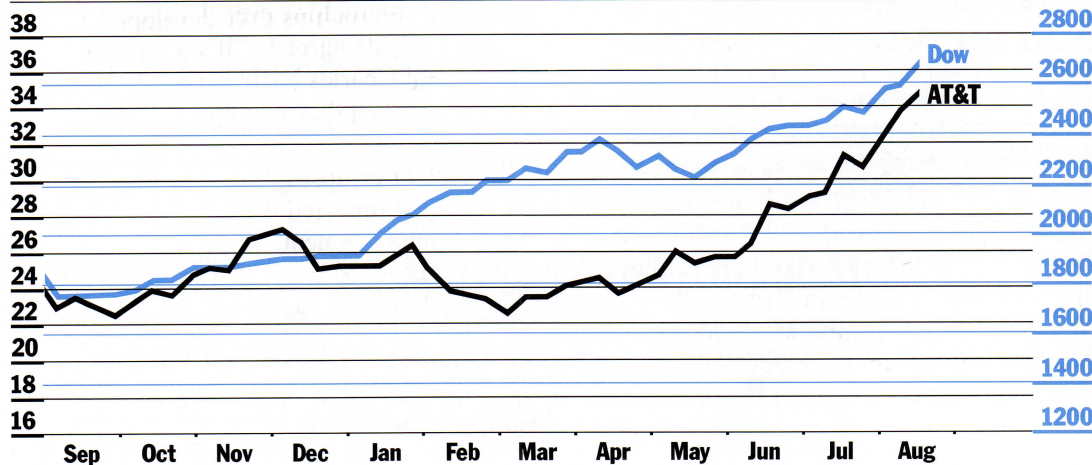
system that supports 9-1-1 in the early 1960s, and in 1980 provided local telephone companies with Enhanced 9-1-1. The enhanced version includes a number of features that enable even better response to emergency calls... AT&T was named "Company of the Month" for September by The American Production and Inventory Control Society. AT&T was selected because it is a leading manufacturing corporation and it supports APICS training and certification... *The New York Times* recently reported that AT&T Senior Vice President Al Partoll, speaking at a workshop, said by the year 2000 microelectronics will offer 40 to 400 times the power of silicon computer chips in use today; and, he said, Bell Labs scientists expect a single optic fiber will be able to transmit 10-million conversations or 10,000 digital television channels at the same time. Today they can carry "only" 3,000 conversations. ■

TICKERTAPE

Better-than-expected earnings results and positive reactions to the fcc's August 4, 1987, announcement of its intention to re-examine the current regulatory approach for AT&T's interstate long-distance services caused AT&T stock to outpace the market averages beginning in June. For the 12 month period ending August 1987, AT&T rose 37%, from 24 $\frac{5}{8}$ to 33 $\frac{3}{4}$, while the Dow Jones Industrial Average increased 40% to 2663.

AT&T Weekly Closing Price

Dow Jones Industrial Average



AT&T's Computer Offensive

New computer products and strategy put AT&T in scoring position.

In the computer game, the stakes are high and the competition is keen. And no one knows it better than AT&T. When AT&T's fledgling team first took the field, it wasn't by storm. Plagued by inexperience and few major wins, the players relied mostly on defense to carry them through. But with today's maturing team, a new head coach and a lot of carefully executed moves, the offense is coming into its own.

There is hard evidence, in fact, that AT&T's data systems division, led by Senior Vice President Vittorio Cassoni, has battled out of its well-publicized slump. Now the company is not only back in the game, it's scoring.

Analyst, media and customer praise, for example, has been positive for AT&T's new desktop computer—the most versatile on the market—and for a new midrange computer that extends AT&T's computer line to near-mainframe performance at a minicomputer price.

AT&T's desktop 6386 WorkGroup System and the midrange 3B4000 computers were among the 40 new or enhanced computer and data-networking products the company unveiled on Sept. 2, the company's second major computer announcement this year.

Coming close on the heels of the 3B2/600 microcomputer introduction in March, the latest products won acclaim from varied sources. *The New York Times* called the new computers "significant advances in technology at a competitive price." *Info World* called them AT&T's "strongest move yet to rival IBM in the computer arena." And *PC Week* said the new 6386 WorkGroup System should put the company "on equal footing with competitors such as IBM and Compaq Computer Corp. in the 80386 market." (The WorkGroup System uses Intel's

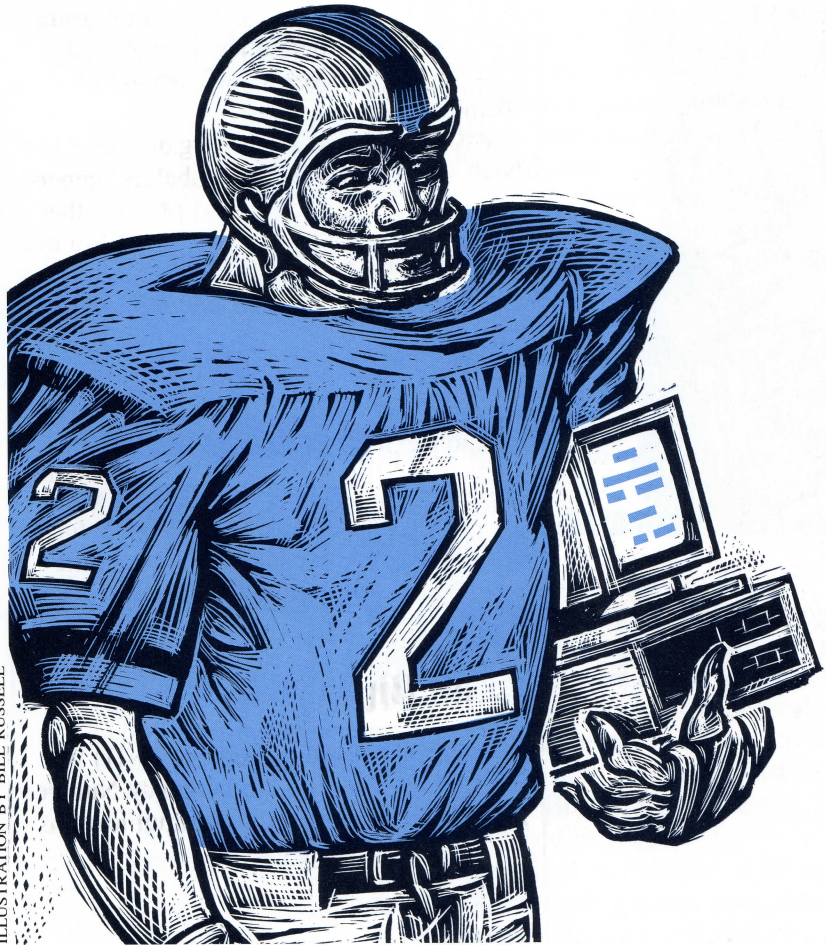


ILLUSTRATION BY BILL RUSSELL

80386 microprocessor, one of the most advanced microchips ever developed.)

The analysts agreed. "It's a positive step," said Charles Nichols of E.F. Hutton. "It's nice when they can upstage IBM."

But AT&T upstaged itself. The company reported that on the day of the announcement, value-added resellers (agents who sell other companies' products) ordered more than \$10 million worth of the new hardware and software, including the powerful 6386 WorkGroup System desktop computer, and the 3B4000 midrange computer.

And if that weren't enough, McDonalds Corp., the fast-food chain, ordered AT&T's new 6386 WorkGroup Systems for its



company-owned stores even before the products were introduced.

Today, there is little doubt that AT&T's marketing offense has been catapulted into position to score with other customers as well.

John Boyd, vice president-sales and marketing, said resellers were impressed on two counts. "One was enthusiastic acceptance of AT&T strategy, as reconfirmed by the new products. The other was the resellers' feeling that AT&T is really committed to computers."

AT&T customers confirm that. One Atlanta reseller, Jim Jacobson, chairman of Jacore, said, "I don't think any other vendor has shown the commitment to the midrange computer business that AT&T has."

"AT&T is the only company that allows customers to grow a single-user system into a 300-user system," he said. "That offers an awful lot of flexibility."

And flexibility, compatibility and connectivity are the basis of AT&T's computer strategy. Even as analysts praised the new products, they called the strategy "unique" because AT&T's computers integrate software programs from different operating systems (the underlying house-keeping software that runs the computer's operations).

For example, the 6386 WorkGroup System can share software and data with the rest of AT&T's computers as well as with other computers that use standard operating systems such as MS*-DOS and UNIX® System V.

This clearly hits on the fat part of the bat," said Jack Grubman, an analyst with Paine Webber Inc. "This is a terrific product with very competitive price performance and will sell very well for them."

Some analysts, however, questioned AT&T's ability to sell the new computers. *The Wall Street Journal's* Janet Guyon wrote, "While giving generally favorable reviews to the products, analysts and consultants said AT&T still has to show it can sell them."

AT&T reacted with new aggressiveness. Less than 24 hours after the announcement, Cassoni was delivering the computer strategy, in person, to large customers across the country.

In Atlanta, *The Atlanta Constitution* said AT&T has "regained its voice" in the computer business.

AT&T has also made headway marketing computers in a way Cassoni said customers understand—according to work groups. All the new products are defined by the user group they are meant to serve—the personal computer (PC), departmental, production, campus or corporate work group. Cassoni also emphasized AT&T's commitment to open standards and connectivity among and across these work groups.

"Technology continues to move so fast that traditional concepts of computer systems and their environments are blurring," Cassoni said.

SO AT&T is working to make certain there is absolute continuity from minis to micros to PCs—in this and in future computer lines. "Customers are seeing that as an important reason why AT&T is becoming their right choice in data products, services and systems," he said.

Becoming a competitive player in the computer game did not happen overnight. Other strategic computer moves to date include: the recent creation of a force of 1,800 technicians dedicated to data equipment customers; price cuts on personal computers and extension of the warranty period on the PC 6300 to one year—to stay competitive in the PC market; an agreement with Microsoft Corp. to develop a new version of UNIX System V for the powerful 80386 chip; and buyers' finance options through the AT&T Card Plus, which allow them to finance AT&T computer equipment on the same card they use for long-distance calling.

As for what's ahead, Cassoni summed it up best when he told reporters, "We're on the move, and we expect to be back to you with at least two major product announcements every year."

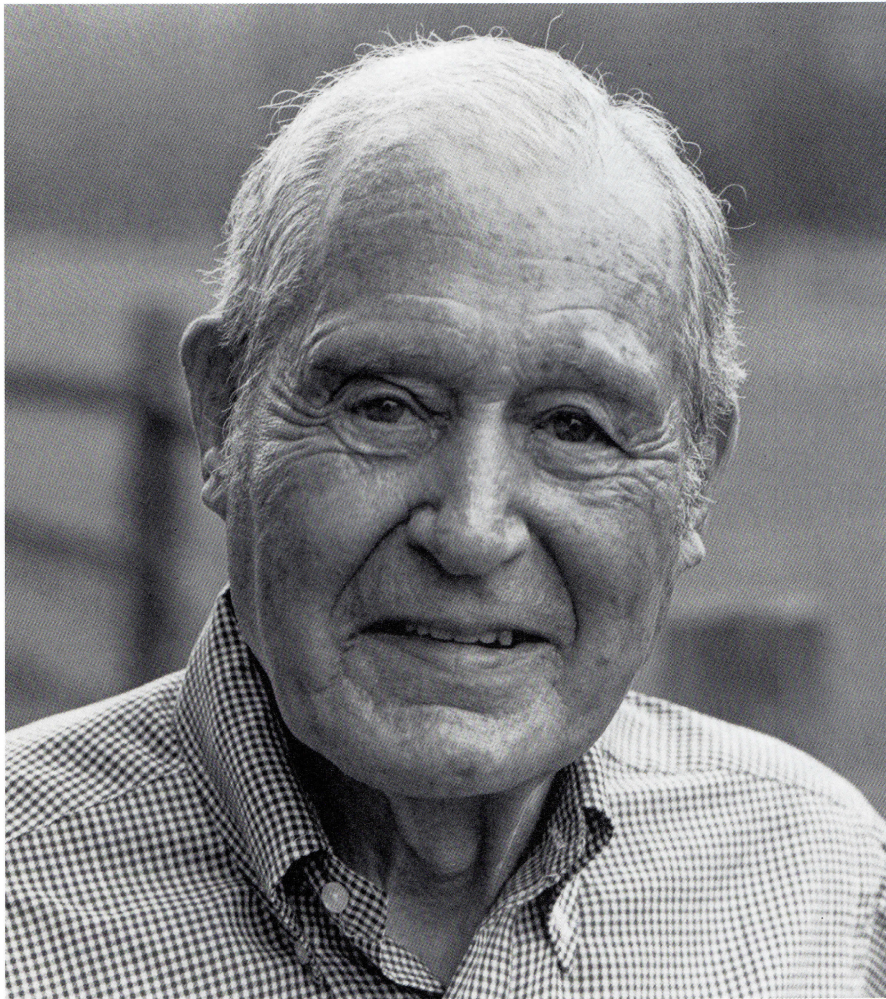
Future announcements are crucial to continue AT&T's momentum—and to keep them on the offensive. And so far, AT&T is making good on its game plan. ■

Editor's note: *This article is based on a series of articles on AT&T's computer business written for Focus by Don Ferenci.*

*Trademark Microsoft Corp.

A Man for All Seasons

Determined to wear out rather than rust out, 87-year-old Harry Disston does it all.



Harry Disston and his wife Katie are at home at Hidden Hill, a 210-acre horse farm they own in central Virginia's rolling hills. Katie (below) stands with Laurel, a filly they are boarding and training, and Jessica, their donkey.



When Harry Disston was graduated from Amherst in 1921 with a Phi Beta Kappa key, he turned down a job with a prestigious banking concern as well as teaching posts at Smith, Cornell and Carnegie Tech to work for New York Telephone Company.

"I wanted something basic like railroads, shipping, or communications," Disston explains, "something that makes the world go around."

Today, 27 years since his retirement after 39 years with the Bell System, and 30 years after his retirement as a brigadier general with the New York National Guard's 107th Regimental Combat Team, that sense of purpose—and humor—has not eluded him. Disston is still making the world go around.

A man of convictions, he talks with disarming directness. "I see friends retiring and in two years they rust out from boredom. I'd rather wear out than rust out."

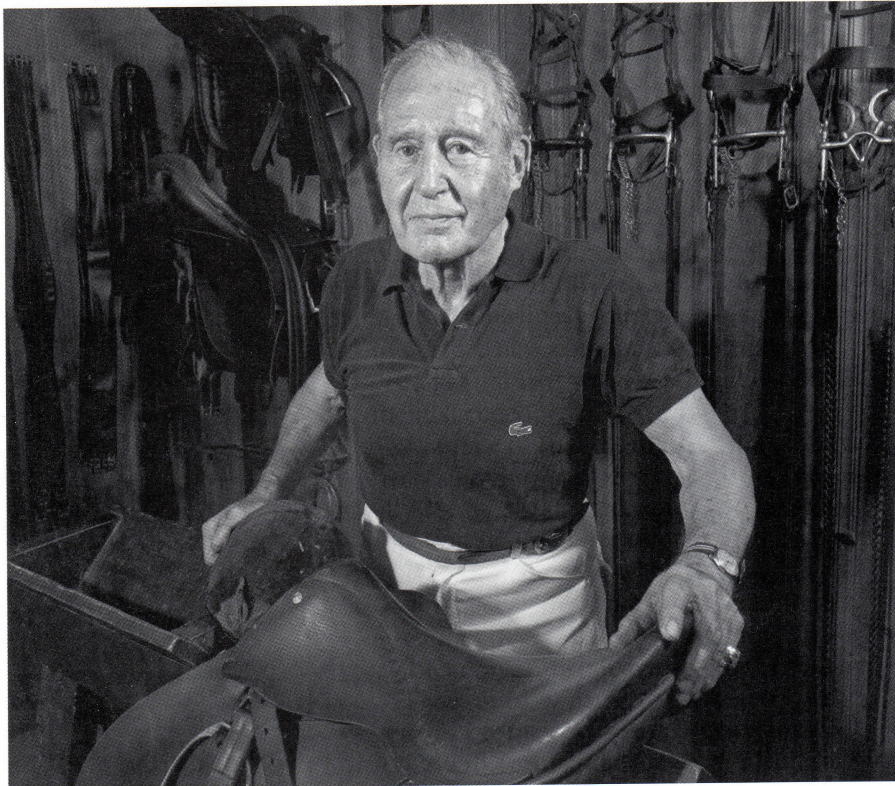
Wearing out—leading a purposeful and challenging existence—in fact, is the underlying theme in the latest of Disston's many books, "Beginning the Rest of Your Life," published in 1983.

Practicing what he preaches at 90 miles an hour, 87-year-old Disston goes about his day vigorously. He rises at 6:45 a.m., does 15 minutes of calisthenics, including 16 pushups and 12 situps, runs 100 yards, then walks briskly for one mile. Matter of factly, he says, "The doctor told me not to jog because it's bad for your ankles."

Disston has followed this daily regimen since he retired from AT&T at age 60 to breed, train and board horses at Hidden Hill, 210 acres nestled in the rolling hills of Keswick, in central Virginia.

Except for being out of commission, as he puts it, for a couple of weeks 11 years ago when doctors removed a cancerous kidney, the one exception to his early morning ritual occurs two days a week, when he takes on the daily horse chores to give his stable manager time off.

Disston dislikes the word retirement. He likes to call this time in one's life the optional occupation period, the time when



Getting ready to ride, Disston stands in the tack room he designed to store saddles, harnesses, polo mallets and other riding gear. He is demonstrating a special saddle stand he designed, which adjusts to hold the saddle firmly when turned over to make cleaning chores easier.

you are still active, but the only boss. And, very much his own boss, Disston takes great pleasure in garnering income from myriad sources.

Besides managing his horse farm, Disston has been in charge of placement and development at the University of Virginia's graduate business school, as well as finance chairman for the state Republican Party and a military aide to the governor. Currently, he also manages Equivest, a business that funds acquisition of horses valued at \$100,000 to \$1 million, and is a partner in a landholding firm.

Disston recalls that in 1957 he asked a friend in the area to look around for about 200 acres at \$100 an acre. His friend scoffed at the idea. "Hidden Hill, then in terrible shape and literally falling apart, was offered for much more than I wanted to pay, so I told my friend to make an offer of \$100 an acre. They rejected the offer—but came back and accepted it a few months later. My friend was amazed, but I knew anything is possible."

And it's with that positive view that Disston continues to make things happen. In addition to managing the farm and his other businesses, he juggles two newspaper columns with aplomb. He writes one on horses for Charlottesville's *The Daily Progress*, and "Random Reflections" for *The Central Virginian*, always staying "at least one step ahead so I don't feel pressured by deadlines."

As facile and determined a writer as he is a person, Disston keeps several giant steps ahead, because he's also working on three books. "I plan on finishing 'Put It on One Page' by September 30," he announces as if it were an easy task. Inspired by too many four-page requests for money he must read as part of his obligation as former chairman of the Virginia Republican State Finance Committee, Disston has divided the book into 30 one-page chapters on the elements and benefits of concise style.

With the straightforward candor that is characteristic of one who excels at many things, Disston says that on the job with the Finance Committee he went a step further, ruffling a few feathers. With a mischievous gleam, he explains, "I wrote a memo saying I won't review anything over a page and I don't."

Meanwhile, spurred on by years of business school experience, Disston is penning "The Principles of Management" and, based on his military experience, "The Elements of Leadership."

To keep up with his projects, he writes one and a half hours a day, anywhere he can, usually in planes and in cars. "Katie likes to drive—or actually doesn't like me to drive—so I can write in the car."

Katie, his wife of 27 years, and Harry don't confine their sharing to driving. They both talk lovingly of their home and farm, horse racing, each other and their 16-year-old Thoroughbred Buster.

In the stables he designed himself, Disston prepares Buster for a ride, musing that if the horses at Hidden Hill appear gentle it's because they are treated gently. According to him, that means "rewards and penalties rather than rewards and punishments."

If it sounds like an expert talking, it is. Long devoted to horses and horsemanship, Disston wrote the first of eight books on the subject, *Equestionnaire*, in 1929; he served in the U.S. Army Cavalry in World War II, was a licensed American Horse Shows Association judge from 1937 to 1982, and authored the article on horsemanship and riding in the *Encyclopedia Britannica*.

In his first three years at the farm, Disston fox-hunted and played polo several times a week. And, until it became too costly, he raced several horses of his own. Looking pleased, he talks about Mister B.,

a steeplechase racer who won Virginia's Chantilly Cup in 1968.

At the entrance to the two-story 1870s colonial farmhouse Harry and Katie painstakingly refurbished, a small cast-iron jockey sports the dark and light blue vertical stripes, lifetime racing colors that belong to Disston.

Disston reminisces on the flagstone veranda. He talks fondly of his student days at Amherst, about interrupting them to serve in the first world war at Camp Lee, Va. And of beginning to play polo—after graduation from college—while he was working for New York Tel and commuting from Long Island where he lived.

Years later, at the onset of World War II, he was granted an 18-month leave from AT&T to again serve his country. "Although I was away for a total of 5½ years during World War II, AT&T wanted me back."

But he never really gave up the Army. The General, as many of his friends call him, actually held two jobs. He stayed in the National Guard and active reserves and then became an officer in New York's famous 7th Regiment.

The Disston's elegantly comfortable home, furnished carefully with American period pieces by Katie, a former Manhattan interior designer, overflows with military memorabilia, including a sizable military history library.

Over luncheon in the dining room, the General easily remembers the events associated with photos that line the library and the vestibule.

In the midst of the photos there's one of Disston in full dress uniform, Queen Elizabeth by his side. He remembers it simply as being in the right place at the right time. "The Queen was visiting New York City in 1954, and a formal reception for her was held at our armory on Park Avenue and 66th Street."

Disston also remembers working for New York Telephone Company and then later, AT&T. Although he feels fortunate to have been one of three 1921 college graduates hired into the managerial program, he literally started with the company from the ground up. Just before his senior year of college, he spent the summer working with a cable gang.

Later in his career, his extracurricular activities included writing articles for *Bell Telephone Magazine* at the editor's request, and serving as president of the Walter S.

Gifford Chapter of the Pioneers.

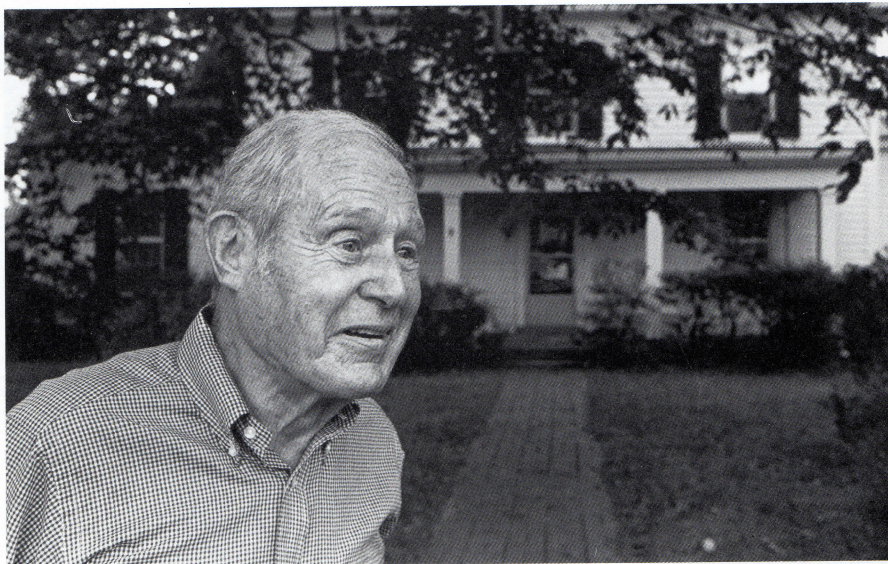
His last post with the Bell System was at 195 Broadway, where he was in charge of independent company relations at AT&T headquarters organization.

Not one to dwell on the past—"We should talk about what we're doing now, not what we did on our old jobs"—Disston has many interests. He's a member of the Torch Club, a national professional group that meets monthly for dinner and a talk; director and treasurer of the Lee Jackson Foundation; a director of the Atlantic Rural Exposition and State Fair in Richmond, Va.; a member of the Jack Jouett Bridle Trails Club, and his Amherst College class secretary.

Still very much his own man, Disston mentions so casually it might have been lost in conversation with some, that in May, the Virginia-Maryland Regional College of Veterinary Medicine dedicated the Harry Disston Surgery Unit for Large Animals.

But you expect that matter-of-fact nod to a once-in-a-lifetime accomplishment from the General. He's not satisfied with merely making the world go around; he wants to wear it out. ■

Disston stands in front of the 1870s farmhouse he and his wife refurbished. Below, Disston and his Thoroughbred Buster spend time together. "Almost always," he says, "horses completely reflect their training and association. When they act up, it reflects a poor rider."



WILL MCINTYRE



AT&T Finds a Place in the S

The EPCOT Center in Orlando, Fla., shines with AT&T technology and hospitality.



More than nine million people a year visit AT&T's Spaceship Earth, waiting on long lines to ride through the 18-story globe. AT&T retiree Chuck Leland (inset above), director of AT&T's EPCOT project, watches from his office in Earth Station. In his spare time, Leland sails and flies his own plane. He and his wife, a painter, live north of Vero Beach, Fla.

Every year, 12 million people—including thousands of AT&T retirees—flood through the gates of EPCOT Center in Orlando, Fla. The first thing they encounter is Spaceship Earth, a gigantic sphere that houses part of AT&T's exhibit at the Walt Disney World theme park.

Some 75 percent of those people visit Spaceship Earth, and 3.5 million visit another AT&T display, FutureCom. Most make the AT&T presentation their first stop, and for many it is the high point of their visit. In addition, 5,000 business customers annually visit the AT&T Customer Center, where they are given demonstrations of AT&T products and services.

"I waited on line in the hot sun for 45 minutes to see this," said a woman from Alabama, referring to the 15-minute ride through Spaceship Earth, "and it was worth every minute of it."

Visitors to Spaceship Earth ride a mini-train that spirals up in the globe, passing startlingly lifelike figures that portray the history of human communications.

Primitive man is seen painting on cave walls; Phoenicians use a written language to record business transactions; medieval monks painstakingly copy manuscripts, preserving human knowledge; Michelangelo paints the creation of the world on the Sistine Chapel ceiling; Gutenberg invents the printing press; modern communications come into being, symbolized by a youth running a home computer.

Spaceship Earth, sponsored by AT&T, is operated and maintained by the Walt Disney Company. Western Electric retiree Chuck Leland manages the project for AT&T.

Leland accepted the EPCOT job in 1982. He calls the project "totally gratifying. The visitors are here because they want to be, and we provide an atmosphere of excellence. Hospitality is the name of the game and nobody goes away mad.

"EPCOT provides an opportunity to demonstrate to a broad audience AT&T's leadership in information-age technology, products and services," Leland says.

Spaceship Earth is only one of the AT&T attractions Leland oversees. Visitors can also explore the future of communications in 9,000 square feet of space aptly titled FutureCom, which offers six exciting exhibits AT&T people designed and built.

Traffic signs, advertisements, compact disks and neon lights are part of an enormous fountain depicting the information

Three turn-of-the-century "operators" (life-sized puppets) herald the arrival of telephony on the communications scene. They are part of the Space-ship Earth ride that chronicles the history of communication.



BUD LEE

that assaults us daily. Flashing colored lights illuminate an enormous map demonstrating AT&T's intelligent network. A filmed presentation augments a display of AT&T products that provide access to the information age. A sprightly tune plays as animated figures portray the benefits of the information age.

An exhibit called Online—The World At Your Fingertips displays the uses made of AT&T computers in the information age.

Visitors can get involved in Face-to-Face, a demonstration of video teleconferencing. They call out the names of places, and pictures appear on the screen behind the host or hostess, who has selected an appropriate scene. A request for New York produced a view of Rockefeller Center, but one boy's hope to see his hometown in Nebraska was dashed: there was no photo available of Arcadia (population 450).

Computer games—Interactive Electronic Displays—are especially appealing to children. Particularly popular is "Phraser," which, at the touch of a button, speaks whatever the user has typed. One youngster was delighted to hear Phraser recite "supercalifragilisticexpialidocious" popularized by the movie "Mary Poppins".

Another popular game is Network; the object is to route as many phone calls as possible, avoiding blocked routes indicated by red lines. "It's hard," a New Jersey youngster said. "I played it about a million times before I made 'master controller.'"

While visiting the AT&T exhibit at EPCOT Center, guests can pick up AT&T promotional literature on request. The

staff handles carrier selection, signing up visitors for AT&T long-distance service and providing information on the company's *Opportunity Calling*sm and *Reach Out*[®] America programs.

Leland is justifiably proud that EPCOT staff members signed up more than 7,000 people in the carrier-selection program, and that they often get reports from Phone Center stores about people commenting they've seen a product at EPCOT and want to buy it.

One of Leland's responsibilities is arranging for visits of dignitaries. Some have been quite memorable. In 1985, for example, Queen Sirakit of Thailand spent a day at the park, and Leland escorted her and then AT&T Chairman Charles Brown and his wife on a tour.

"One of the things the queen most wanted to do was visit the Small World show in the Magic Kingdom section of Disney World, because there are lots of Thai dolls in it," Leland recalls. "I made arrangements for Mickey and Minnie to meet her when we got to Magic Kingdom.

"There's a formal Thai greeting where you put your hands together in front of your face and bow," Leland adds. "I arranged for Mickey and Minnie to do it. The queen had her own photographers with her, and when Mickey and Minnie bowed, the photographers went bonkers."

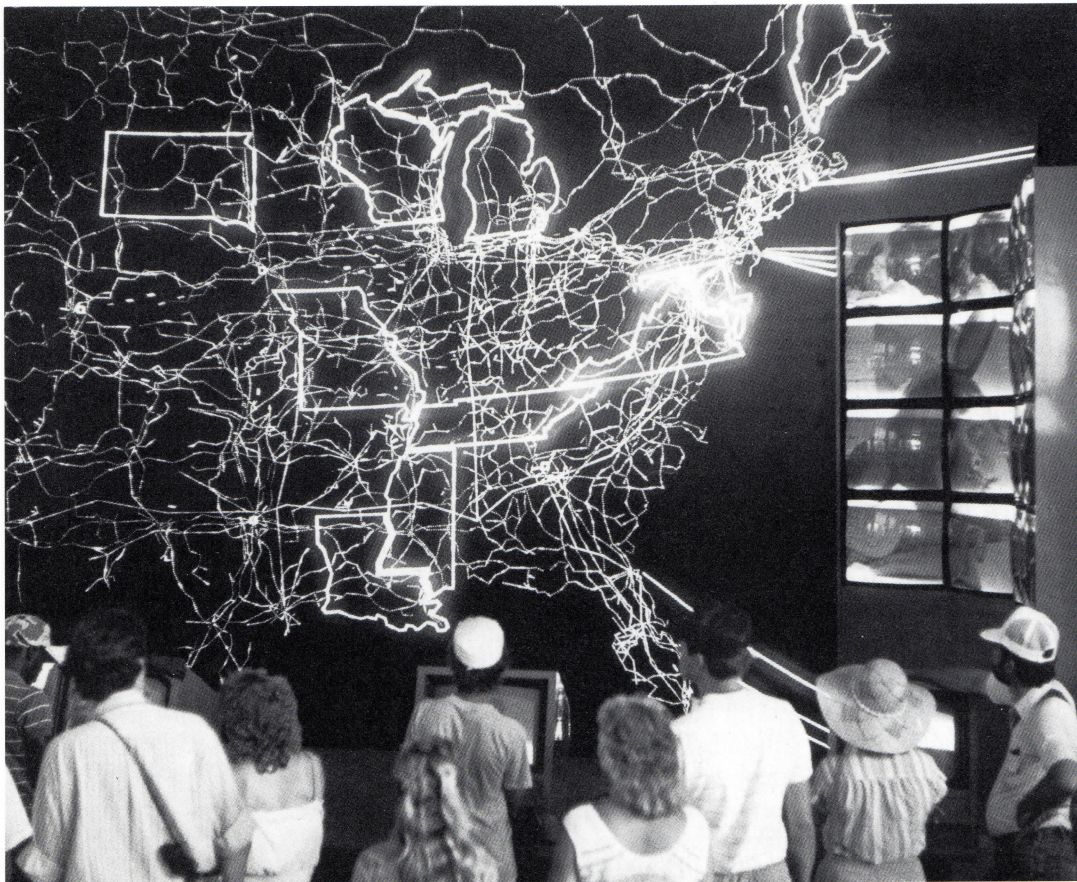
When they finish at FutureCom, visitors can go on to the Electronic Forum, where they encounter the 3/4-scale model of Telstar III, the AT&T communications satellite now orbiting the earth, relaying phone calls, data and TV programs around the globe. A man from Oregon summed up his feelings in one word. "Wow," he said.

Visitors to EPCOT—which stands for Experimental Prototype Community of Tomorrow—don't leave AT&T behind when they go on to other areas of the park. AT&T also sponsors Earth Station, EPCOT Center's main information center, featuring giant screens that depict the major attractions in the park.

Prominent in Earth Station—and in five other areas of the park—are terminals of the WorldKey Information Service (WKIS), an interactive electronic information system developed for EPCOT by AT&T to demonstrate the potential of an integrated voice, data and video communications system. By touching a sensitized TV screen,

Towering over the exhibit floor, the Fountain of Information in FutureCom is a kinetic, art-deco work, depicting the variety of communications assaulting the senses of everyone in the modern world—everything from stop signs to compact disks.





A 15- by 30-foot electronic map (at left) demonstrates AT&T's intelligent network. An automated show on banks of tv screens explains the workings of the network. Visitors are invited to experience some of its capabilities by using touch-sensitive tv monitors to obtain information on new technologies and services, and on current events in the 50 states. "Isn't it funny?" one visitor said. "I had to come all the way to Orlando to find out about something I want to see back in Connecticut!"

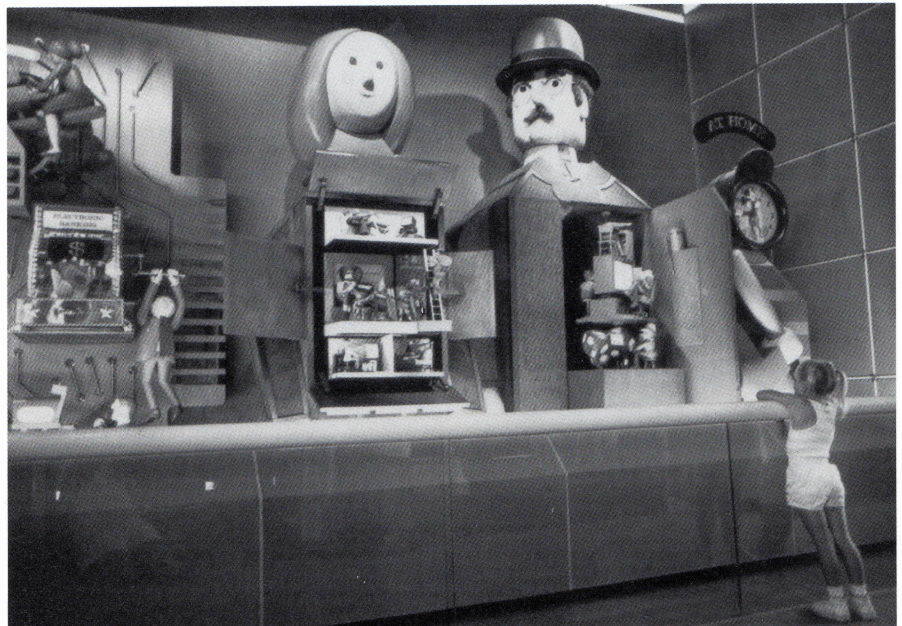
Eminent folk-art sculptor Walter Einsel designed the Age of Information in FutureCom, a display of animated figures depicting the benefits of modern telecommunications in the electronic cottage, the automated office and on the move.

users retrieve information (in either English or Spanish) on special events in the park, and they can see and speak with information attendants for answers to questions and to make restaurant reservations.

The technology used in WKIS has aroused interest in other areas. People from the National Park Service, highway departments, the insurance industry, banks, airports and the real estate business have all been in touch with AT&T about adapting the system to their needs.

EPCOT itself is divided into two sections, Future World and World Showcase. Future World presents the theme of the park: the future and prospects for a better life through the efforts of participating private enterprises. AT&T, Exxon, General Electric, General Motors, Kodak, Kraft, United Technologies and Unisys all sponsor exhibitions in this part of the park.

World Showcase features pavilions sponsored by nations of the world: Canada, China, France, Germany, Italy, Japan,



Mexico, Morocco, the United Kingdom and the United States. Norway will soon join the group.

Despite AT&T's involvement with EPCOT, Leland regrets that he isn't able to provide discounts for AT&T employees or retirees. Some Pioneer branches offer Magic Kingdom Club memberships that do include discounts; a call to your local office will tell you if your chapter has the program. ■

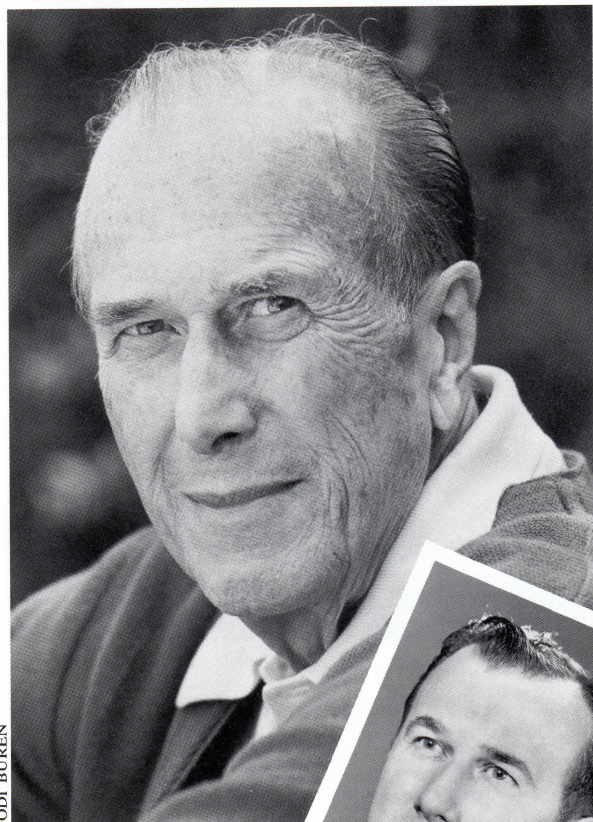
Five Minutes to Telstar

Twenty-five years ago, Telstar literally launched the information age, bringing the world closer together.

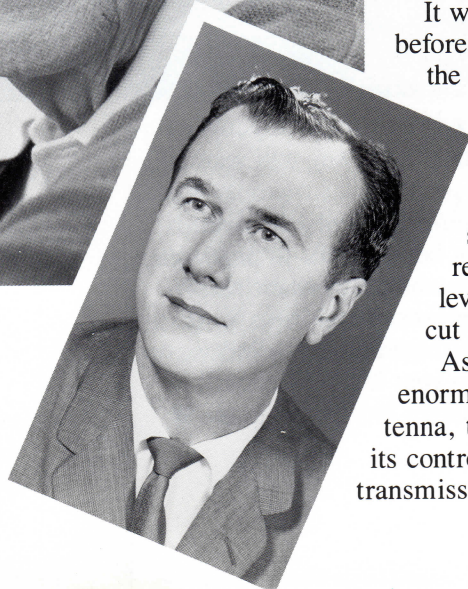
Hugh P. Kelly, now retired eight years from AT&T Bell Laboratories, remembers Telstar as a history-making experiment. At the time, Kelly headed ground station design for the satellite project. A poignant moment in his life, Kelly said, "Everyone who worked on it knew it would be a career highlight."

When Telstar was launched on July 10, 1962, Kelly was in Pleumer-Bodou, France, waiting to receive the first satellite television signals from Andover, Me. On July 11, he was decorated with the French Merite Postal medal. In his own words, Kelly describes what it was like to be on the leading edge—with just five minutes to spare.

Hugh Kelly today, and (inset) as he appeared 25 years ago when he worked on Telstar.



JODI BUREN



My first, most vivid recollections of Telstar always seem to start near the end of the project. Several groups of us were clustered around equipment at the earth station complex on France's Brittany coast, preparing for the rise of the Telstar satellite. Telstar, in its orbit, rose like the sun and we were waiting for it to come above the horizon so we could receive the first "live" television transmission from the U.S.

It was five minutes before rise time and the tension, built up during 20 months of design and construction, had reached such a level you could cut it with a knife.

Assembly of the enormous horn antenna, together with its control tracking and transmission gear, had

started in France about two months before—after a series of disasters with the air-inflated radome structure. The radome was necessary to house the huge sugar-scoop of an antenna. During the period, we didn't sleep much.

Now, we were ready, but anxious. The previous 30 minutes had been difficult. We fixed a problem in the transmission equipment. Then we had to repair the tracking gear, damaged by a voltmeter dropping into the open tray of electronics which operated the precision tracking equipment. No one was quite sure what was going to happen next.

We did know Telstar was visible to the station at Andover, Me., about 25 minutes before we could see it in France. They were already tracking the satellite and were sending signals in a loop, from Andover to Telstar and back to Andover. We were cheered by the knowledge that the system worked. Our remaining concern was whether our French station was ready.

During this final five minutes, we knew for the first time that our system was operational. But would we be able to find and track Telstar as it rose above our horizon and receive the first "live" television signal transmitted from the U.S. to Europe? We chewed our nails up to the armpits.

When Telstar rose, the system was working perfectly. We received the TV broadcast from Andover with the same fidelity as if it were local. History was made. All of us shouted excitedly, drowning out the audio portion of the program, and soon all you could hear was the popping of champagne corks.

My part in this drama began in October 1960, when I undertook to coordinate design and construction of the earth station at Andover. At this point, the basic technology necessary for the experiment was available, but very little of it had been refined to the degree required for Telstar to work.

The satellite would require the use, for the first time, of a host of these new technologies in the hostile and largely unstudied realms of space. New research and

development was needed on masers for the amplification of microwave radiation, on transistors, solar cells, the traveling wave tube, guidance systems, microwave radio relays, and giant antennas on a scale never before attempted. The entire project was to be completed in about 20 months.

By September 1, 1961, construction of the 177-foot-long, 94-foot-high, 380-ton horn antenna was under way at Andover. The huge antenna was to acquire and track the moving Telstar satellite with the accuracy of a good hunting rifle. A 70-foot-diameter wheel would rotate the antenna to adjust elevations. But first, the wheel had to be assembled on the floor under the radome, then lifted into a vertical position in a cradle on the antenna structure. This lifting was one of the most nerve-wracking parts of the construction job.

The wheel and its supports weighed about 90 tons. Three large cranes operating together were required to lift it. If any one of them failed to carry its part of the load, the whole thing would tumble down. It took eight hours of minute adjustments and equalization of loads to lift the wheel into place. To those of us near the wheel, it seemed more like 80 hours.

By February 1962, construction of the Andover complex was essentially complete, and system tests were started and continued up to launch time on July 10.

Meanwhile, both the British and the French had decided to participate in the Telstar experiment. The British chose to go their own way in an earth station design on the Cornish coast. The French wanted an earth station as nearly identical to Andover as possible at Pleumer-Bodou. Since the Andover station seemed to be going well, I turned my attention to the construction and operation of the French station.

We immediately began, much as we had in Andover, with the control building, radome foundation and erection of a temporary radome. This temporary radome, however, was to be responsible for most of the schedule delays and all of the anxiety created by undergoing our first test of the entire system just five minutes before it was needed.

The first radome was installed and inflated on schedule. A day later, on April 2, it developed a split near the top, and all 20 tons of it came crashing down.

We patched the shelter, much like you would an inner tube on an old tire, and on May 1, inflated it again. I had assured the French that we would make every effort to pick up the one month delay. So on May 1, a delegation of French dignitaries visited the site to inspect the repaired radome. After a morning tour, we went to the hotel for lunch. We were being seated when I was called to the telephone. It was Walt Klute, the site manager. He said, "We're having trouble with this radome—my God, there she goes." I know that having to go back to the happy crowd just about to begin lunch and to make this announcement put some grey in my hair.

As luck would have it, the temporary shelter at Andover had just been replaced with a permanent structure and the temporary one was shipped immediately to France. On May 7, we received, installed and inflated the shelter. Now work on assembling the horn antenna and its associated control, tracking and transmission electronics could start. In retrospect, I find the accomplishment of this task by July 10 to be absolutely incredible.

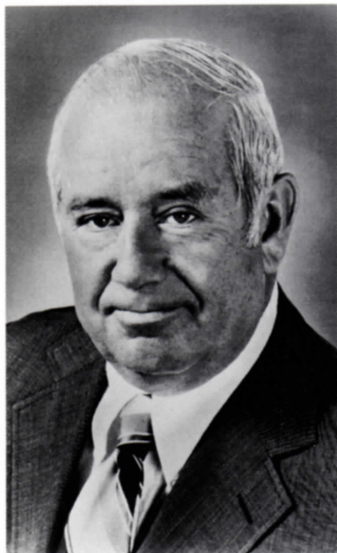
Telstar taught me an important lesson: given world-class scientists and engineers, such as those found at Bell Laboratories, working as a team dedicated to a common goal, nothing is impossible. Being a natural optimist, I think that I always believed this. After Telstar, I *knew* it.

While all of us knew that satellite communications would be a revolutionary advance in the communications art, we were caught up in the huge technical challenge of this project. I don't think it was possible at that time to envision the profound cultural, social and political impact that would result from worldwide live television.

The funerals of Churchill and Kennedy, transmitted live between the U.S. and Great Britain, led the way. The effects became more apparent with Vietnam. For the first time, battlefield scenes were brought directly into people's living rooms from across the world. There is little doubt that this had a large impact on the public reaction to the Vietnam conflict. Today there is very little that occurs anywhere on earth that is not available live, via satellite, to TV screens everywhere. I, for one, certainly did not foresee "satellite earth stations" on sale at Radio Shack. ■

**"When Telstar rose, the system was working perfectly. We received the TV broadcast from Andover with the same fidelity as if it were local. History was made."
Hugh Kelly**

On Pioneering



"We are reaffirming our interest in Pioneering and renewing our efforts."

Dear Retired Employee:

Whenever I meet retirees, you can bet many of them ask me about AT&T's support of Pioneers. It's not an unlikely question, since AT&T has gone through many changes and upheavals in the last few years. In fact, however, AT&T support for the Pioneers has never waned.

We continue to support the Pioneers as we always have. On the average, AT&T funds 30 percent of the pioneering costs. In 1988, that will amount to seven million dollars. That includes administrative costs, support for local Life Member chapters and the Life Member Affiliate Program (there are 10 affiliate chapters in Florida alone), and support for the General Assembly and Pioneer publications.

We also provide space for Pioneers—areas where Pioneers meet regularly to plan activities, socialize and learn firsthand about the business and its issues.

Our executives continue to support pioneering efforts. This year, Technology Systems President Tom Thomsen is the organization's 69th president. And September's 62nd Pioneer General Assembly in New York City was hosted by Network Systems President Wayne Weeks.

That's what we've always done—that support has never stopped. But it's safe to say that it hasn't been given top priority in the past few years. The message I'd like to give you, however, is that we are reaffirming our interest in Pioneering and renewing our efforts.

To that end, I recently sent a note to all middle and senior managers, asking them to join me in this support with one of our most valued resources: our active employees. We're encouraging people to take leadership roles in the Pioneers and to consider the organization part of their business life. That means taking appropriate time off to support various projects, business conditions permitting. And we're

recognizing Pioneer participation in performance appraisals.

We recognize that supporting the Pioneers makes good sense. We benefit many people in our local communities who would otherwise not be served. Our employees receive a sense of satisfaction through their involvement in these projects. Pioneering offers management development experience to those who serve as officers in local councils, clubs and chapters. And Pioneering gives us an excellent opportunity to raise our corporate profile and improve our image in local communities. Finally, through the active involvement of life members in the Pioneers, AT&T sustains and nurtures a relationship with its retirees—a relationship that is unique to our industry.

More important, perhaps, Pioneering's values transcend time and change. The AT&T that was proud to stand for service to the community in the past, wants to sustain that tradition—and that reputation—in the future.

Jim Olson
AT&T Chairman

Humble Thanks

"My husband, a retired Western Electric Kearny, N.J., employee, was stricken with Guillain-Barre (syndrome) Thanksgiving Day 1985. Between doctors, ambulances, hospitals, rehabilitation, home care, etc., our bills were astronomical, close to \$60,000. Unless you have come to terms with such a serious expenditure, it probably does not occur to most retirees how important AT&T benefits are. Thanks to these benefits, we still own our home. How does one say thank you to a large company which has done so much for us? Very humbly and gratefully!"

Mr. and Mrs. Frank Goebel
Tannersville, PA

Memories, Memories...

"In a recent issue of *Encore* (Summer, 1987) the article "The Science of Reminiscence" jogged my memory. During my early school years (1915 to 1921) I was performing a service for the local Mountain States Tel. and Tel. office at Aspen, Colo. They received long distance calls for someone in town who did not have a telephone. I was contacted by the operator to function as a messenger and notify the person. No such service exists today, but I always considered it an excellent service."

T. J. Graves
Deerfield Beach, FL

"Having worked at 195 Broadway for nearly 30 years in the first half of this century, the picture of 195 lobby in 1916 brings back many memories. It reminds me that 195 Broadway covered (initially) only the Dey Street side, and the Fulton Street side, completed several years later, was known as 205 Broadway and apparently owned by another separate subsidiary. I think it was almost 1930 before the 205 designation

disappeared and the entire building was known as 195. Also in the early '20s it was the headquarters of radio WEAf."

P. H. Vivian
Fernandina Beach, FL

Not Forgotten

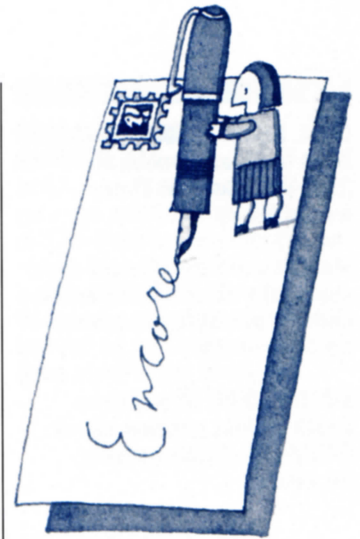
"An early *Encore* (Spring, 1987) had a letter from Boyd E. Stum complaining that the company soon forgets its employees. I spent 43 years with Western Electric, retiring in 1973, and very emphatically do not feel that (AT&T) has forgotten me. Every month like clockwork I receive my pension check. My medical and dental expenses are largely paid by the company, and, for a sweetener, my long distance phone calls are reimbursed. As to working hard, I don't need the company to acknowledge that with a party or card. (AT&T) acknowledged it by pay increases and promotions. I have many friends retired from other companies that wish their company would forget them like ours."

William H. Sunderland
Baltimore, MD.

The Last Word

"Because I wrote many historical articles while serving in Long Lines and Western, I was particularly interested in the Summer issue article "The Science of Reminiscence." Its anonymous author states the first transmission of speech was "Mr. Watson, come here, I want you." As one attending the 100th anniversary celebration of the telephone in Boston, I received a medallion with Dr. Bell's likeness and the words: "Mr. Watson, come here, I want to see you." Also, in larger lettering, "Thus the telephone carried its first message." Chairman deButts explained at a dinner meeting that the shorter version was from Watson's notes, but that Dr. Bell's notebooks only recently revealed his version. There is no doubt that the AT&T Archive has Watson's version, but it may not be the last word on the famous first sentence."

Laurence M. Whyte
Pittsboro, NC



What do you think? Share it with *Encore* and your fellow AT&T retirees. Write us at: AT&T *Encore*, Room 2338G2, 295 North Maple Avenue, Basking Ridge, NJ 07920

CALL REBO: 1-800-323-9217, 8:30 to 11 a.m., noon to 2:30 p.m. Central Time, weekdays.

Mondays are the busiest days, especially after holiday weekends; if possible, please call on other days.

NOTIFY REBO of a retiree death or lost pension check: 0-312-981-2269, collect; 24 hours.



JOHN SEGAL

Medical Benefits Outside the United States

If you move to a home outside the United States, or are traveling outside the country, you continue to be covered by the AT&T Medical Expense Plan. However, to be reimbursed for hospital and medical expenses, you must first pay the bills yourself.

Retired employees and their covered dependents who are not Medicare-eligible should submit paid, itemized hospital bills (inpatient and outpatient, except for outpatient physiotherapy) to Blue Cross at the following address:

Blue Cross
AT&T Dedicated Service Center
75 Crystal Run Road
Middletown, NY 10943-0001

Note: This is a change from the filing procedure for hospital bills described in the September 1986 issue of *Encore*.

All other paid medical bills for patients who are not Medicare-eligible should be submitted to Travelers Insurance at the following address:

Travelers Insurance Company
P.O. Box 7579
Greensboro, NC 27417

Retirees and covered dependents who incur medical expenses outside the U.S. and are Medicare-eligible should send *all* paid bills, including hospital bills, to Travelers Insurance. If you are in this category, Travelers is the only health insurance provider that will reimburse you.

While some Medicare-eligible retirees living outside the U.S. have dropped Medicare B for themselves and their eligible dependents, REBO advises against it. If you live outside the country and come to the U.S. for medical treatment, you will still

need Medicare B coverage; Travelers Insurance, in this instance, will not pay for expenses normally covered by Medicare. Therefore, REBO urges you to retain your Medicare B coverage. Since AT&T reimburses Medicare-eligible retirees for the cost of Medicare B, cost should not be a reason for dropping it. ■

We've Got You Covered

It's annual open health insurance enrollment time again. Now you can enroll in or cancel HMO memberships and enroll in or cancel Class II or sponsored dependent's memberships under the Medical Expense Plan coverage.

You should have received a letter from REBO explaining this year's procedures. If you haven't, please contact REBO.

Retirees should also contact REBO to obtain information about HMOs in their geographic area. Retirees who have existing Class II dependent's coverage will be mailed Continuation of Class II Coverage forms. Simply complete the form and return it to REBO to either continue coverage for another year or to cancel coverage. If you do not submit these forms, the existing coverage will be canceled. Should you wish to enroll new Class II dependents, contact REBO for application forms. Enrollment and cancellation forms for sponsored dependents may also be obtained from REBO. ■

Oops

In the *Encore* summer edition, "Filing a Medical Expense Plan Claim" contained an error. Under the paragraph headed "Medical Claims," the first sentence should have read: "Medicare-eligible service and disability retirees and their *Medicare-eligible* dependents should send claims for physician services to Medicare first." ■

Benefits Snapshot Using HealthCheck*

HealthCheck is in and it's one way AT&T and its employees and retirees can work together to manage the skyrocketing cost of quality health care by requiring approval before certain categories of medical care are given.

Non-Medicare-Eligible Retirees:

The full HealthCheck precertification program applies to service and disability retirees who are not covered by Medicare as well as their non-Medicare-eligible dependents.

All retired employees and/or their dependents who are **not** on Medicare must call HealthCheck (1-800-262-6268 weekdays from 9 a.m. to 8 p.m. Eastern Time) for the following reasons or they will not receive maximum allowable benefits:

Category 1. Prior to a hospital admission

Category 2. Within 48 hours of an emergency hospital admission

Category 3. For second opinion requirements regarding certain surgical procedures

Important: Two endoscopic procedures—knee arthroscopy and laparoscopy—require prior HealthCheck approval. These procedures are categorized as surgery, not as tests. Other endoscopic procedures (i.e., bronchoscopy, colonoscopy, cystoscopy and gastroscopy) have recently been deleted from the list of required second opinion surgeries. Also deleted were Caesarean section and D&C (Dilation and Curettage). *Whenever you are in doubt about second opinion requirements, call HealthCheck.*

Non-Medicare-Eligible and Medicare-Eligible Retirees: All service and disability retirees and their dependents must call HealthCheck (1-800-237-4992 weekdays from 9 a.m. to 8 p.m. Eastern Time) for:

Category 4. Pre-approval of services, which include the following:

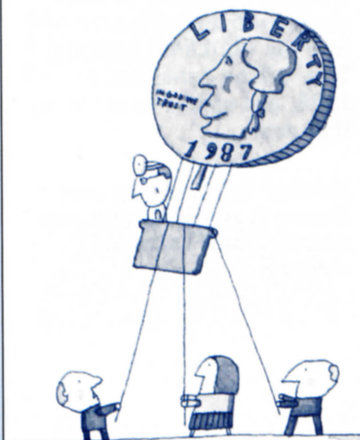
- Home health care following hospitalization
- Extended-care facilities following hospitalization
- Birthing centers
- Outpatient treatment of drug and alcohol dependency

Medicare-eligible retirees, however, who have dependents who are **not** on Medicare, must call HealthCheck whenever those dependents require services in any one of the four numbered categories described above.

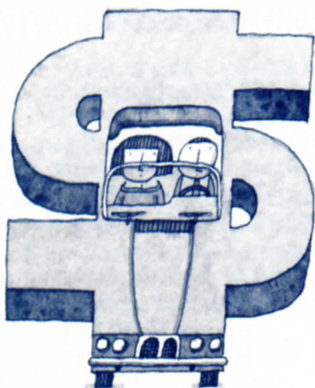
To familiarize yourself with the program, be sure to read your blue HealthCheck booklet carefully. If you do not have a booklet, and you or your dependents are not on Medicare, call 1-800-262-6268 to get one. ■

**This applies to service and disability pensioners only.*

NEW BLUE CROSS 800 NUMBER: Effective Oct. 5, 1987, non-Medicare-eligible retirees and their qualified non-Medicare dependents can reach Blue Cross toll-free on 1-800-221-3032. Please use this new nationwide number instead of any others you may have used in the past.

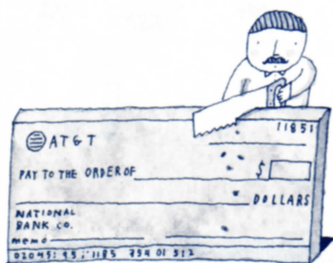


HOLIDAYS: REBO will be closed Thanksgiving Day, Nov. 26, and Friday, Nov. 27; Thursday, Dec. 24, and Christmas Day, Dec. 25; and New Year's Day, Jan. 1



December Checklist: Remember, December pension checks will not be mailed before the Christmas holidays. They will be dated Jan. 1, 1988, and mailed to arrive by that date.

Moving? To make sure AT&T Encore is mailed to your new address, notify REBO in writing.



On the Road Again

Avis and National car rental agencies are still giving AT&T retired employees a corporate discount on rentals for personal use. But there's a hitch: the free collision damage waiver insurance and personal accident insurance coverage with each rental has been reduced.

For more information on rental car discounts, reservations and insurance coverage, call the rental company's toll-free number and give the AT&T contract number for that company. Following are the numbers to call:

Avis Rent A Car
1-800-331-1212
Contract A 666600

National Car Rental
1-800-227-7368
Contract 5002000

Check with your own automobile insurance agent before you rent a car. When you pick up the car, the rental agent will offer a paid insurance plan. Be prepared to accept or reject it, based on advice from your insurance agent. ■

State Income Tax Withholding

AT&T's corporate pension payroll system can be programmed to withhold state tax from your monthly pension and annuity checks. But not all states will accept monies withheld by AT&T. If you live in one of the states listed below, you are eligible for this service.*

Alabama, Arizona, Arkansas, California, Colorado, Delaware, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Jersey, New

**Although withholding service is provided for these states, it does not mean that all of them actually tax pension and annuity payments.*

Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Utah, Vermont, Virginia, West Virginia, Wisconsin.

Simply send REBO a letter specifying the amount of state tax withholding you wish, or contact REBO and request a state tax withholding form. Since state tax tables are not built into the pension payroll system, only fixed, even dollar amounts can be withheld. And, it will take one month from the time REBO receives your signed letter or withholding form before deductions can be made from your monthly pension pay. ■

Number, Please?

REBO's always trying to serve retirees more efficiently—and you can help. Since the benefit systems are geared to Social Security numbers, it helps ensure quicker service if you write your Social Security number on all correspondence to REBO, on any telephone bills sent to Atlanta for reimbursement, and on bills sent to insurance carriers.

And sometimes two numbers are better than one: It also helps to put your telephone number on letters you send to REBO, so it could be easy to call you if necessary. ■



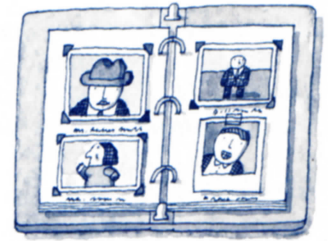
Keeping Track

Just in time to help you keep track of one another's whereabouts for holiday greetings, the AT&T Directory of Retired Employees is now available.

The directory cost is \$7.00 plus any applicable sales tax. You can order by mail (order blank below) or phone and use credit card, check, or money order.

To order by phone, call the AT&T Customer Information Center (1-800-432-6600 weekdays from 7:30 a.m. to 6:30 p.m. Eastern Time). Have your Visa, MasterCard or American Express Card handy and request the AT&T Directory of Retired Employees, select code 700-387. If you wish to pay by check, you will be advised to make your check or money order payable to AT&T and send it to the address below. Or, to order by mail, complete the form below and mail it with check or money order, if applicable, to:

AT&T Customer Information Center
Commercial Sales Rep
P.O. Box 19901
Indianapolis, IN 46219 ■



AT&T Directory of Retired Employees Order Form

Order Code	Quantity	Unit Price	Total Amount
700-387		\$7.00	
Subtotal			_____
Please Add Your State Sales Tax			_____
Foreign Orders Add \$2.00			_____
Total			_____

Mail Directory To:

Social Security Number _____

Name _____

Address _____

City _____ State _____ Zip _____

Method of Payment:

Check/Money Order* MasterCard American Express VISA

Card Assignee _____ Signature _____
(Name as it appears on your credit card)

Charge Card Account No. _____ Expiration Date _____

*Make checks payable to AT&T. Foreign orders—payment must be made by international money order or checks drawn on U.S. banks payable in U.S. dollars.

**WRITE REBO: P.O. Box 770,
Arlington Heights, IL
60006-0770.**

In Memoriam

Encore's quarterly listing of retiree deaths includes state abbreviations of the last work location (in italics). If a particular business unit is not listed, that means no information was available for that unit at press time. In recent years, some AT&T organizations have combined or changed names (as in the merger of AT&T Communications and AT&T Information Systems); below is a key of former names and the corresponding current names.

Western Electric Network Systems
 Components & Electronic Systems
 Technology Systems
 General Departments Corporate Headquarters
 Long Lines/Communications End User Organization
 Information Systems End User Organization

END USER ORGANIZATION

Adams, Anita NY	4/27
Akerstrom, Laverne M. MN	5/06
Alexander, Irwin O. NC	4/30
Armstrong, Lucy NY	5/09
Arnesault, Catherine T. MA	4/15
Bell, Paul E. NY	6/21
Bertram, Clement W. NJ	6/06
Bonfiglio, Rose NY	5/25
Borchard, Madeline UT	6/10
Brown, Alice A. NY	6/06
Buczkowski, Edward W. MI	4/01
Budd, Emma J. OH	6/11
Burke, Vincent T. CO	6/09
Cash, Jr., John L. MA	4/13
Clayton, Paul G. DC	6/22
Cleveland, Arnold W. NY	6/22
Conte, Bernadette PA	6/17
Coyle, Lillian A. NY	6/03
Cromer, Mary F. FL	5/02
Crosson, Kathleen V. NJ	6/17
Dozier, Ermalene VA	4/07
Duffy, Margaret M. NY	5/24
Dusso, Adeline A. NY	4/12
Edmonds, Joyce D. NJ	6/13
Egan, May C. NY	4/10
Elam, Paul L. IL	5/20
Erickson, Albert NY	4/20
Everling, William J. TX	6/25
Farmer, Barney A. MO	4/25
Fisher, Charles N. MO	6/22
Flint, Raymond V. WY	4/14
Flynn, James R. CA	6/05
Folk, Donald W. AZ	4/28
Ford, Ruth E. NY	6/27
Fox, Josephine E. MN	5/19
Francis, John J. NJ	4/10
Gannaway, Edison E. FL	6/20
Gearity, Helen NY	6/01
Geraghty, Agnes M. NY	5/15
Gibb, Edith M. NY	5/06
Giles, Elmer J. PA	6/24
Girton, Patricia L. IN	5/17
Glaze, John C. MO	6/08
Glover, Sarah A. NY	4/08
Goodman, Marlon TX	6/14
Griffen, May J. PA	6/12
Grippio, Carmela M. NY	4/02
Haffner, Gary E. KS	5/11
Harper, Albert MI	5/30
Hatfield, James W. GA	4/19
Heiron, Richard E. OH	5/02
Henson, Dolores H. DE	6/10
Hesson, Mary F. MA	4/29
Hogan, William J. NY	5/24
Jeffries, Samuel A. MO	4/19
Johnson, Richard E. CA	6/22

Jones, Mary V. MI	4/27
Jones, Ruth P. IN	4/27
Kelly, Maud E. NY	4/13
Kendric, Chester D. OH	4/08
Kennedy, Joseph T. NE	4/29
Kennedy, Kenneth OR	6/05
Kerr, Wayne MO	6/18
Knell, Evelyn NY	6/13
Lafitts, Thomas F. GA	5/18
Lanheady, Mary NY	4/04
Lennox, Charles N. VA	4/20
Lowryk, Catherine J. PA	6/08
Lubk, Clara K. NY	5/09
Mahoney, Minta C. MO	6/19
Martin, Antonia E. NY	4/17
McCabe, Loretta M. NY	6/14
McCormick, Maybelle CA	5/18
McDonnell, Suzette M. NY	7/23
McGarry, Raymond T. PA	6/10
McLaughlin, Bernard P. NY	4/05
McMurray, James W. MI	6/24
Mollberg, Russell E. NY	6/12
Morvek, Viola A. PA	5/17
Nozynski, Louise NY	4/25
Oxehufwud, Anders MO	4/06
Perry, Curtis E. NY	5/25
Pfenning, Charles G. PA	4/07
Pittaway, Joel MI	6/24
Pjerrou, Elizabeth L. NY	6/14
Post, Jack CA	5/17
Ramsey, Joseph C. NJ	4/07
Rogan, Eleanor MA	6/22
Rudawsky, Stephen PA	4/24
Rue, Chester L. GA	5/27
Sandmann, Allan H. NY	5/05
Schelle, Robert C. NY	5/19
Schmalbach, Charles L. NJ	5/12
Sheridan, Phillip J. MN	4/18
Shirk, Billy V. MD	5/16
Simunek, Joseph J. NY	6/12
Smith, Clyde OH	6/08
Staley, Arthur W. GA	5/08
Steed, Edith H. MS	4/20
Sullivan, William J. DC	4/14
Tanstrom, Clayton A. CT	4/09
Taylor, Donald W. NE	6/07
Thompson, Ernest L. FL	6/02
Thrush, John E. PA	4/04
Tunnell, Charles R. NY	4/10
Turley, Frank IN	4/29
Tuynman, Ruth E. NY	4/03
Vaughn, Willie L. TX	5/02
Walker, Charles R. TX	6/30
Weston, John W. DC	6/08
Wideberg, Carl E. NY	4/29
Williams, Charles E. MO	4/10
York, James L. TN	4/18

NETWORK SYSTEMS

TECHNOLOGY SYSTEMS

COMPONENTS & ELECTRONIC SYSTEMS

Abrott, Arthur F. CA	4/02
Adams, Josephine S. IL	4/28
Adamson, Thomas C. IL	6/08
Agosto, Anthony J. NY	6/11
Ahlgrim, Angela A. NE	5/01
Alexander, Richard L. NC	7/19
Allgeyer, Raymond S. IL	4/29
Ambion, Charles H. NY	4/07
Anderson, Elmer C. IL	6/08
Anderson, Eunice C. NC	5/02
Appenzeller, Bernard L. MN	5/28
Argo, Fred H. LA	6/24
Arndt, Mary O. IL	4/29
Atteberry, Alpha P. OK	4/19
Auger, Pierre E. NJ	6/13
Austin, Christopher F. NJ	5/12
Azevedo, Antonio J. NJ	5/27
Bagnell, Marguerite M. MI	5/02
Ballantine, Joseph L. WA	5/02
Banik, John J. IL	4/22
Barney, Dolly B. NC	4/17
Baron, Anton W. MN	4/14
Beedy, Harold PA	6/09
Beese, Paul P. NJ	5/01
Bellerive, Louis J. IL	5/01
Bench, Daniel PA	6/20
Bennett, Jack G. IL	4/12
Berends, George H. MD	4/05
Bergquist, Carl J. IL	6/15
Betty, Jean H. PA	4/12
Bevin, Donald R. MA	5/26
Biase, Phillip P. NY	4/02
Biernat, Pauline P. IL	5/28
Black, Benjamin P. NY	4/02
Blalock, Frances C. IL	4/17
Bluvax, John NJ	4/29
Bobby, Paul NJ	4/23
Bolan, Robert P. MA	6/07
Boldebuck, Amelia M. IL	4/14
Bowen, John J. PA	5/28
Brasky, Lena R. NJ	5/22
Brice, William H. TX	5/11
Brink, Earle H. NY	5/16
Brizendine, Martha B. IN	6/18
Broderick, Frank NJ	5/18
Brown, Katie S. IL	6/24
Burdick, William H. IL	6/03
Burt, Abner K. IL	4/30
Butler, John J. NY	6/27
Byrne, William C. MI	4/28
Callahan, Robert D. IL	4/17

Cannon, James P. NY	6/22
Caplan, Barbara W. MD	4/08
Carbone, John IL	5/30
Cardinal, Charles C. MI	6/10
Carey, Joseph S. NJ	4/02
Carlson, Carl G. MO	5/08
Carr, Helen C. NY	3/31
Carr, Paul J. CA	5/02
Carroll, James F. NY	4/25
Carroll, Marie K. NJ	4/27
Carroll, Owen F. PA	4/05
Carter, Edward A. NY	4/25
Chalupa, Anthony J. CA	5/28
Chapman, Rudolph S. MO	6/15
Chase, Frank M. IL	5/28
Chase, Lloyd C. MA	6/13
Cheek, Wade H. NC	5/20
Chimiak, Michael J. NC	5/31
Clark, David NJ	6/05
Clarke, Helen L. MA	6/16
Connolly, Richard F. NJ	5/04
Costello, Jerome J. NY	4/23
Cowal, Frank J. NJ	5/10
Crane, Louis T. OK	6/01
Cruikshank, Amy P. IL	4/22
Crump, Melton C. DC	6/16
Cunha, Jaime R. NJ	5/18
Cuskk, Raymond D. CO	4/17
Darden, Bernard R. GA	5/16
Day, Thomas W. NY	4/26
Deak, Gustav NJ	5/07
DeGray, Robert A. CT	6/25
Deinhart, Edward F. IL	4/06
Deitrick, Rollin E. NC	6/17
DeLeo, Nicholas A. MA	6/05
DeLizio, Sam R. NY	6/16
Densuk, Genevieve MD	5/10
Destasio, Helen NJ	5/19
Dixon, John IL	5/06
Doherty, Catherine T. MA	4/13
Doster, Bruce IL	4/15
Drake, Stanwood J. MA	6/08
Driver, Robert F. FL	5/05
Eiche, Warren F. PA	5/01
Elam, Jr., Glenn E. NC	5/19
Ellis, Helen L. NC	5/27
England, Teresa E. NJ	4/19
England, Jr., William A. NJ	5/07
Erickson, Melvin T. IL	6/23
Etchison, Gertrude NJ	5/28
Fenton, Warren W. WA	4/10
Fialkowski, Marian S. IL	6/23
Fiega, Jan IN	5/29
Fjelstad, Harry F. MO	6/09
Foertsch, Ralph T. IL	6/06
Ford, James Y. MD	6/03
Fratiannie, Carmen J. OH	5/11

Furst, Dorothy F. NJ 4/10
 Gamble, David S. CT 5/19
 Garcia, Gertrude J. CA 6/10
 Garner, Vivian C. IN 5/03
 Garrett, Nathaniel U. MD 4/08
 Gass, Walter R. NJ 4/11
 Gentry, George R. CO 6/27
 Gersch, Elsie C. IL 4/28
 Giovannoni, Concetta O. IL 4/18
 Glinka, Robert A. IL 6/02
 Gnjadek, Mary R. IL 5/31
 Goers, Walter G. IL 4/25
 Gormley, Howard G. WA 5/02
 Graham, Sonia B. MA 5/19
 Greene, William W. MS 6/22
 Greuschow, Harvey F. NY 4/11
 Guy, Emile J. MA 4/14
 Guzowski, Mary S. PA 5/26
 Hajouk, Sophie T. IL 6/06
 Hampton, Jerry C. LA 6/29
 Hamrsky, Charles J. NJ 5/05
 Hart, Floyd H. NJ 6/22
 Harwick, Henry C. IL 4/07
 Hasler, Clarence K. IL 5/21
 Hawco, Ann R. NJ 6/28
 Hayden, William R. CO 5/15
 Heavy, Patrick NJ 6/08
 Helwig, Darwin J. PA 5/15
 Hendrix, William C. NC 4/21
 Hennessey, Francis W. PA 6/22
 Hertzog, Kenneth E. PA 5/27
 Hicks, Thomas R. NJ 5/11
 Hines, Fred W. IL 4/15
 Hinshaw, Lloyd S. NC 6/23
 Hirth, George W. NJ 7/07
 Holbert, Richard B. MD 5/13
 Holman, James B. IL 6/01
 Homrighous, John H. IL 5/12
 Houpe, Carl A. IL 6/20
 Howerter, Edward C. NJ 6/23
 Hoyt, Robert L. NE 6/28
 Hunzinger, Charles W. MO 5/29
 Hutchinson, Brian E. OH 5/12
 Jackson, Ira C. NJ 5/19
 Jacobs, Marie I. MO 6/06
 Javorsky, Albert J. IL 4/09
 Jennings, William H. IL 5/09
 Johnson, Harold F. IL 6/10
 Johnson, Otis L. TX 6/19
 Johnson, Roy L. NJ 6/29
 Jones, Robert W. IN 6/08
 Karr, Raymond G. IL 6/27
 Kasper, James J. IL 5/15
 Keljook, Charles J. MA 4/29
 Kelly, Joseph NJ 6/28
 Kelly, William F. MA 4/16
 Kemmerly, Ellsworth T. MD 4/05
 Kenny, Geraldine T. NJ 4/24
 Kibble, Arthur L. IL 5/13
 Killian, Adam G. NJ 5/19
 Kleisner, James F. IL 6/19
 Kompare, Beatrix R. IL 6/01
 Kotovc, Edward MN 4/05
 Krcmar, Louise N. IL 5/02
 Kunde, Luella C. IL 6/02
 Laita, Libbie C. IL 4/17
 Lamb, Bertram R. CT 5/05
 Lantz, Jerry E. OH 4/28
 Lanyon, Robert H. OK 6/01
 LaPlante, Francis L. MA 5/18
 Larson, Alvin B. IL 5/28
 Latimer, William IL 5/27
 Lawniczak, Mary Z. IL 6/13
 LeGallee, Lawrence G. CA 4/03
 Lenski, Chester W. IL 4/24
 Leon, Nancy NJ 6/17
 Leshefka, George J. NJ 6/26
 Linnerud, Anna L. IL 4/11
 Loncarovich, Doris L. PA 4/12

Long, Norman J. IL 1/06
 Lucas, Ernest E. OH 5/14
 Lucy, Grace E. MA 4/02
 Ludvik, Frances IL 4/10
 Lyle, Oliver I. WS 4/19
 Lypp, Frank W. IL 5/24
 Machovec, Joseph MD 4/22
 Malara, Dominick J. NJ 4/17
 Malin, Joseph J. GA 5/23
 Malone, William P. IL 6/23
 Malynn, Sr., John P. MA 4/26
 Mares, Helen M. IL 5/09
 Marney, Virginia M. NY 5/19
 Martz, Julius J. PA 6/16
 Maszk, Marion B. WI 4/08
 Matters, Margaret D. NY 5/01
 May, Aileen S. IN 5/13
 McCray, David W. GA 6/06
 Mellon, Milton M. IL 6/13
 Melton, William E. IN 6/19
 Mendyk, Edward A. NJ 6/20
 Menzinger, Charles F. NY 4/10
 Merkel, Stuart A. PA 5/30
 Messenger, Lillian F. IL 4/04
 Michael, Habib NJ 6/30
 Mikolyski, Catherine MO 4/20
 Miller, Edward E. NC 6/25
 Miller, Robert W. MN 4/18
 Moble, George C. NC 6/23
 Molina, Daniel NJ 4/03
 Moll, William G. PA 4/15
 Moore, Willis R. NJ 4/18
 Moriarty, Rita M. NJ 5/15
 Morris, Roy M. AL 4/27
 Mottel, Edward J. IL 4/12
 Muir, Mary S. CO 4/14
 Muraszko, Sally W. NJ 5/31
 Murrah, Eileen E. TX 6/22
 Nelson, Ralph B. IL 6/21
 New, Jimmy R. GA 6/09
 Nickell, Grace M. IN 4/22
 Noll, Alfred M. IN 5/07
 Norby, Margaret G. VA 4/09
 Nye, Francis E. MA 5/01
 O'Brien, Margaret C. NJ 5/27
 Ocel, Stephen J. IA 6/26
 Olsen, Olaf M. IL 6/11
 O'Reilly, Raymond J. NJ 4/28
 Osinski, Chester J. NY 5/30
 Patano, Vito IL 6/17
 Penn, Otto Bo IN 4/02
 Piatek, John NJ 6/22
 Pilachowski, Frank M. MD 5/13
 Pinkerton, Bernard L. IL 5/30
 Plochocki, Cornelius J. IL 5/07
 Plotkowski, Robert M. IL 5/21
 Poulin, Frank A. MA 6/12
 Prohaska, Frank K. IL 4/24
 Prokop, George J. NJ 6/04
 Reedy, Jean S. OH 6/19
 Reynolds, Oliver E. NY 4/11
 Roberts, Charles E. NJ 6/20
 Robertson, George A. NJ 5/18
 Rokos, Frank IL 4/21
 Rosa, Anna M. NJ 4/05
 Ruggiero, Mary A. NY 5/23
 Rundquist, Gustave R. NY 6/01
 Ruyak, Francis S. PA 6/24
 Ryan, John H. MD 5/17
 Sakowicz, Cecila E. NJ 4/08
 Scagnelli, Nora E. PA 4/02
 Schmidt, Cora C. IL 5/10
 Schoeffler, John L. LA 4/13
 Sedlacek, Albert CA 4/11
 Senco, Nicholas NY 5/09
 Shaw, Peter K. MD 4/23
 Sherrier, Raymond J. NJ 6/28
 Stansbury, Bertram H. MD 6/27
 Simonian, Charles NY 5/04

Sisk, Robert E. IN 6/08
 Slepicka, Edward M. IL 4/11
 Smith, Jr., Harvey MA 5/07
 Smith, Joseph W. NJ 5/23
 Smith, Jr., Robert J. NJ 6/02
 Smith, Violet M. IN 4/26
 Snell, Harry S. NY 5/28
 Soltow, Lawrence M. NJ 5/19
 Spainhour, James H. NC 4/21
 Specht, Max H. IL 4/01
 Spencer, Robert E. MS 4/05
 Spies, Theodore A. IL 4/13
 Staal, Frederick H. NY 6/09
 Steele, George R. MI 6/07
 Steinke, John L. IL 6/01
 Stevens, John J. NJ 6/11
 Stone, Wilfred G. NY 5/05
 Stupka, Edward F. IL 5/20
 Sullivan, William J. MA 5/24
 Sulton, Morse A. NY 4/08
 Swain, Ruth T. NC 4/01
 Swan, Donald W. IN 4/30
 Szczurek, Chester S. IL 4/26
 Talkington, Robert O. CA 5/03
 Tasich, Mary V. IN 4/26
 Terhune, Florence S. NJ 5/20
 Thibou, Thomas R. PA 5/07
 Thomas, Alpheus W. CA 4/21
 Thomas, Reuben C. NC 4/11
 Thompson, Paul OH 4/14
 Thompson, Ruby C. NC 5/26
 Thorborg, Martin E. NJ 5/27
 Thrall, Chester L. NJ 4/14
 Tinnell, Richard W. FL 4/01
 Tolleson, Ira E. TX 5/28
 Toomey, Genevieve A. IL 6/07
 Trent, Harold R. NC 6/25
 Trinks, Hermann K. NJ 5/31
 Trione, Catherine L. IL 5/15
 Tuite, Vincent A. NJ 4/19
 Tyrcha, John S. NE 6/05
 Underwood, Byron J. IL 4/14
 Underwood, Margaret IN 6/27
 Usey, Clarence W. LA 4/24
 Vanderpoel, John C. CO 6/17
 VanGuilder, Joseph P. MN 6/14
 Vatikun, Marion IL 5/12
 Vileta, Charles F. IL 4/07
 Virchow, Vernon F. MO 4/03
 Vitiello, William R. CA 5/31
 Von Lindern, Donald R. CA 5/20
 Vosk, Joseph F. NJ 4/18
 Waddell, London NC 6/09
 Warner, Mary K. IL 6/17
 Watroba, Frank R. MD 6/21
 Wawroski, Benjamin F. NJ 6/22
 Weber, Gordon C. NY 6/26
 Welat, Lucille L. IL 5/18
 Welborn, Faye L. IN 5/09
 Westerman, Louis C. MD 4/24
 Westrud, Charles M. OH 4/25
 Wetzel, Robert C. NJ 5/28
 White, Barbara D. MO 6/28
 Whittaker, Paul H. NY 5/29
 Wiggins, John C. NC 6/27
 Wiles, Frank C. NY 5/03
 Wojtyasiak, Martin J. IL 4/23
 Woldman, Evelyn R. IL 4/03
 Worthey, Eugene B. LA 4/17
 Wurtz, Henry G. IL 5/21
 Young, Arthur G. AZ 6/05
 Young, Mary G. IL 4/17
 Yuska, Harriet W. IL 6/16
 Zator, Margaret J. NJ 4/11
 Zdenahlik, Rudolph A. IL 6/23
 Zellner, Robert P. PA 4/29
 Zientara, Sophie IL 5/08
 Zimmer, Rose A. IL 5/03
 Zipp, Frank E. NJ 6/03

BELL LABORATORIES

Allen, William C. NJ 5/13
 Beers, Arthur D. NC 5/23
 Brannon, Rudolph NJ 4/18
 Denny, Harold A. IL 5/27
 Domkos, Wanda W. NJ 5/19
 Ely, Hiram B. NJ 4/11
 Emery, Elizabeth A. NJ 4/01
 Fullerton, William J. NJ 4/13
 Gettings, Katherine A. IL 4/06
 Godsey, Jules M. NJ 5/22
 Griffin, Jack P. NJ 4/27
 Groch, John E. IL 4/28
 Haas, Otto C. NJ 6/20
 Huben, Rudolph J. NJ 6/30
 Hunter, Robert A. NJ 4/02
 Internicola, Salvatore NJ 6/14
 Jankowski, Alexander NJ 6/30
 Kenney, DuWayne F. IL 4/20
 Kerr, Elizabeth M. NY 5/11
 Klute, Walter A. NJ 4/09
 Kuenzler, Edwin A. NJ 4/22
 Lane, Richard F. NJ 6/05
 Luffman, Charles E. NJ 6/20
 Mareci, Marie A. IL 4/24
 Matthews, Emil C. NY 4/11
 Miserendino, Tony IL 4/15
 Moravec, Edward J. NJ 5/24
 Neely, Isabelle NJ 6/19
 Nickelson, Eugene O. IL 4/28
 Ross, Edward J. NJ 6/10
 Schukraft, Karl E. NJ 4/10
 Schulegel, Emil A. NJ 5/30
 Spahn, Charles F. NY 4/26
 Stiller, Alfred T. NJ 4/18
 Tedesco, Marion NJ 5/30
 Thomson, Stanley P. NJ 4/08
 Turpin, William P. NJ 4/07

TELETYPE

Best, Hortense M. IL 4/13
 Brown, Mary T. NY 6/28
 Donaldson, Don E. IL 6/25
 Glowienke, Jacob C. IL 6/04
 Jablonski, John IL 5/29
 Krzesinski, Anthony J. IL 5/18
 Mangels, Harold J. IL 6/18
 Rodgers, Johnson IL 5/30
 Terry, Russell C. IL 6/10
 Thompson, Irene W. AR 6/14
 Wiercinski, Edward F. IL 6/01

CORPORATE HEADQUARTERS

Bodman, Jr., Philip D. NJ 4/27
 Brown, Howard F. NY 4/27
 Deaknye, Theodore A. NY 5/24
 Epley, Patricia J. IN 4/15
 Gould, Henry W. NY 6/05
 Howard, Alice C. NY 5/12
 Kattenhorn, Arthur W. NY 5/25
 Schlfe, Paul NY 4/14
 Stines, Edward H. NY 5/17

OTHER ENTITY

Baiersdorfer, Edward NY 6/12
 Foley, John P. NY 6/12
 Gallagher, Edward M. NY 4/09
 Haspel, Fred H. NY 5/30

Where Are AT&T Retirees Now?

Wondering where all AT&T's retirees are living these days? Ponder no more. Here's a recent snapshot, courtesy of REBO records, of their whereabouts.

The picture reflects a total of 103,877 retirees living in the contiguous United States. Not shown are 214 retirees living out of the country, bringing the grand total, as of Sept. 1, 1987, to 104,091.



JESSIE HARTLAND



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Basking Ridge
New Jersey 07920

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