HP in the Pacific Northwest
UP FRONT

Comments on the changing HP scene—and the people behind it.

As a matter of general principle, editors should be read, not read about—at least in their own publication. An exception is when the editorship changes, as it did for Measure with this issue. The new editor is Brad Whitworth who has been one of Measure’s associate editors for the past two years. His prior background includes a degree in journalism from the University of Missouri, some sports broadcasting, two years as employee communications manager for an insurance company and some key roles—both local and international—in the 9,000-member International Association of Business Communicators.

At HP, Brad has participated in several communication task forces (including Open Line and Flexible Time Off), contributed significantly to the company’s 1981 annual report and led the development of a new evaluation service for division publications.

Meanwhile, former editor Gordon Brown has not left the fold. With 142 issues under his belt, he will continue to exercise a quality-assurance role on Measure as manager of the internal communications department in Corporate Public Relations. Readers can count on seeing his continuing contributions in upcoming issues.

HP’s growing presence in the rugged Pacific Northwest is described in our cover story by staffers Lane Webster and Joanne Engelhardt. The two travelers visited eight HP divisions in six cities in a quick week—a far cry from the grueling travels of Meriwether Lewis and William Clark 178 years ago.

The two-year Lewis and Clark expedition, following the course of the Columbia River, explored much of the region inhabited only by native-American tribes led by chiefs with names like Seattle, Yakima and Spokane.

Where waterfalls and rapids once slowed the explorers’ progress, huge dams now span the river, providing nearly one-third of all the hydroelectric power produced in the U.S. The abundant natural resources in the area—energy, timber, fish, fur-bearing wildlife—have attracted many industries to the region in the past two centuries.

One of the most recent to move to the Pacific Northwest is the electronics industry, praised by its many supporters as clean, quiet and financially stable—“the best kind of industry to have. If you have to have one nearby.”

But the industry is not without its critics. Many oppose any growth. Lane and Joanne trace Hewlett-Packard’s manufacturing history in this rugged territory.

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MEASURE

MEASURE is published six times a year for employees and associates of Hewlett-Packard Company. Produced by Corporate Public Relations, Internal Communications Department. Gordon Brown, manager. Address any correspondence to Measure, Hewlett-Packard Company, 3000 Hanover Street-ZBR, Palo Alto, California 94304. Change of address should be reported to your personnel department.

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Hewlett-Packard is a major designer and manufacturer of precision electronics equipment for measurement, analysis and computation. Domestic Operations: manufacturing facilities in Cupertino, Mountain View, Palo Alto, Roseville, San Diego, San Jose, Santa Clara, Santa Rosa and Sunnyvale, California; Colorado Springs, Fort Collins and Loveland, Colorado; Boise, Idaho; Andover and Waltham, Massachusetts; Rockaway, New Jersey; Carlsbad and McMinville, Oregon; Avondale, Pennsylvania; Marysville, Spokane and Vancouver, Washington; Regional marketing headquarters in Atlanta, Georgia; North Hollywood, California; Rockville, Maryland; and Rolling Meadows, Illinois, with sales and service offices in more than 80 cities throughout the United States International Operations: manufacturing operations in Campinas, Brazil; Grenoble, France; Saarbrucken and Waldbronn, German Federal Republic; Hachiōji, Japan; Penang, Malaysia; Aguadilla, Puerto Rico; South Queensferry, Scotland; Pinetwood, United Kingdom; and Singapore. Regional marketing headquarters in Palo Alto, California and Geneva, Switzerland with sales and support offices, and distributorships in 70 countries.

On the cover: Water cascades 620 feet down from the top of Multnomah Falls, slicing a cliff on the Oregon side of the Columbia River gorge. The river was discovered in 1792 when the American explorer, Robert Gray spied its mouth, sailed inland, and named the river after his ship, the Columbia. The river gorge stretches 55 miles with cliffs rising as high as 3,000 feet. Such scenery lured photographer Clair Muma away from Boise, Idaho, two years ago.
A slumping economy in the Pacific Northwest, long dominated by lumbering, is gradually recovering with help from Hewlett-Packard and a growing electronics industry.

By the end of World War II, three sawmills near McMinnville, Oregon, had called it quits and closed forever. Savage forest fires had gutted 250,000 acres of the Tillamook Forest over a seven-year period. Most of the timber industry was moving south to harvest lumber from the forested slopes of the lofty Cascade Range. It was no longer practical to haul logs back to McMinnville.

The only other industry in the area, agriculture, could not make up for the jobs lost when the sawmills closed.

"The city fathers thought of this as a place where they wanted to retire," recalls Lee Perry, publications production manager for HP's McMinnville Division. "As a town, we were dying on the vine."

McMinnville's experience was an early warning signal of what would be needed to guarantee the future economic success of the Pacific Northwest: diversified industry.

The Pacific Northwest has always been rich in natural resources. Dense forests, shrouded by thick mist and showered by rain, have made the region famous. Great snow-capped mountains like Rainier, St. Helens, Adams and Hood crown the land while fresh-water trout swim through the streams and ducks and geese fly overhead.

The industry that has grown up in the Northwest and dominated its industrial landscape is lumbering. For many years, companies like Boise Cascade and Georgia-Pacific have cut timber in the abundant forests and floated or trucked logs down to sawmills scattered throughout the rugged region.

But the last two years have been rough ones for the wood and wood products industry. In several months of 1980, there were fewer homes built than at any time since World War II, bringing down demand for lumber and forcing sawmills to close, according to the Western Wood Products Association. At the end of 1981, 152 of the 454 mills in the Northwest were closed and 118 more were operating at curtailed
Galen Wiles is just getting his feet wet on electronics advisory committees for two community colleges near HP's new Lake Stevens Instrument Division (LSID) plant. Equipment at the two schools, Everett and Edmonds, is "not all that bad," according to Galen, "but we hope to help them improve class structure and curriculum."

When the new division began looking for technicians last year, supervisors found there were not many local residents with the electronics training needed by HP. "We interviewed more than 100 applicants from the local area and hired only three," he recalls. "But we hired eight who were graduates of Northern Seattle Community College, which has a good electronics curriculum." His primary function on the community college committees, he feels, is "to give the colleges some insight into what our industry needs in regard to electronic technicians."

In the meantime, Galen and Jean Vanline have their hands full putting together some HP courses on electronics and nontechnical manufacturing. Galen says most of the new technicians "just need some brush-up instruction," while Jean has been organizing classes in assembly and wiring techniques for people who have never done that kind of work before.

For the long haul, however, Galen knows how important it is to contribute to upgrading the local junior college technician curriculum—"else where will we get the technicians we need to expand?"

called the Columbia Business Community for the Arts. Then he got another idea: persuade the city to buy the church and lease it to the arts center for $1 a year until enough money is raised to buy the building back from the city.

Once the city council agreed, Jim brought in professional fundraisers who have already had successes in securing lump sums from large businesses and foundations. Meanwhile, Marilyn developed an audience for the arts, beginning with a nucleus of sixty people, nearly all of them members of HP families. "We needed people to get out and try things, and HP people are the logical people to do that. We sold a whole social package to employees to get them to go to things that they might not otherwise go to."

How did the Rhodes discover that art and industry could be a complement to each other? Several years ago, while John was working in Sunnyvale for the Data Terminals Division, Bill Hewlett called around to find someone who could use two spare opera tickets.

"That really made a big impression on me. I had always been interested in the arts, but that was the first time I saw that a company could be interested as well," says Marilyn.

If not the entire company, at least many HP employees at the Vancouver Division are interested. Along with the employees of other local companies, these HP people have made sure that they will not have to leave town to get their fill of entertainment, be it books, ballet, a musical, a play, or the friendly ogre Bronlok swatting away at a giant mosquito.
were working short shifts. The entire Northwest is experiencing the same crisis in the 1980s that McMinnville faced in the 1940s. Weary of the cyclical nature of the lumber industry, communities now recognize their need for a more diversified industrial structure. Their plans include attracting fast-growing electronics companies, which are less affected by high home mortgage rates than the volatile lumber industry.

"HP's ups and downs are primarily ups and downs in growth rate, while the timber industry has ups and downs of an absolute nature," explains Fred Hanson, general manager of the Corvallis Division. "The timber industry will never regain the prominence it has had in the past," adds John Owen, head of the electrical and computer engineering department at Oregon State University in Corvallis. "Oregon, for one, is not a very rich state. Unless we go high technology, we haven't got anywhere to go."

Other Northwestern states and other traditional industries are in the same bind. "It's not unusual to find unemployment of 10, 12 or even 15 percent in some areas," notes Bill Kay, who left Loveland, Colorado, last year to manage HP's start-up Lake Stevens operation. "In this area, for instance, when Boeing Company (an aircraft manufacturer) has a big layout, it affects the whole economy of the area."

Currently employing 75,000 people in all its Washington plants, Boeing reduced its workforce by 5,000 in 1981, half through layoffs, the other half by attrition. It expects to dismiss another 2,000 to 3,000 employees in the first half of this year due to the long lead time required for tooling up its plants when new contracts come in.

Not far from Spokane, Washington, the Bunker Hill Mining Company is closing down, and Kaiser Aluminum, the largest employer in that city, has threatened to reduce or eliminate its two operations if they do not become more productive.

In the face of this economic slump, HP is helping revitalize and diversify the Northwest's industrial base. In the last 10 years, the company has put eight divisions in six different communities. These divisions, along with the five HP sales offices in the Northwest, already account for nearly 15 percent (7,100 people) of the company's total U.S. employment.

Other electronic companies also are in the region. John Fluke Manufacturing Co. and Tektronix, Inc. are both native to the Northwest, while others such as Intel and Fairchild have expanded north from California's Silicon Valley.

The McMinnville Division was HP's first manufacturing outpost in the Northwest. It was not started from scratch like the other divisions in the region, but was acquired by HP in 1973 as part of its medical products group. The community, now numbering about 14,500, not only weathered its crisis of the 1940s but has become, in the words of the sign posted at its entrance, "Oregon's Pacesetter in Industrial Development." Its method: small-scale, diversified manufacturing.

Late in 1973, a small group of HP pioneers scouted Corvallis, Spokane and Boise, seeking a site for a new division that would make computer peripheral equipment. "We happened to choose Boise first, but now we have divisions in all those areas," says Ray Smelek, now general manager of the Boise Division.

Semirural land parcels—near but not in major cities—are still common in the Northwest, and these are the places where HP has customarily chosen to expand. Apparently it chooses well. A recent study sponsored by the U.S. Environmental Protection Agency identified the top two "most liveable" metropolitan areas: the Portland-Vancouver and Seattle/Everett communities. Each area now has a new HP division.

"Coming up here allows people to turn back the clock," says Bruce Gant, senior personnel representative in Vancouver. "You can live in a neighborhood that's like the one you grew up in. It's not as transient and mobile as the urban areas. It's more family oriented."

Echoes of the same feeling are heard on other Northwest plains. For people like Disc Memory Division General Manager Doug Spreng, the outdoor life in Idaho could not be more idyllic: "Here I can go water or snow skiing, hunting, fishing, backpacking, play tennis or golf—all within an hour's drive. My problem is not that there's not enough to do. It's trying to figure out which I want to do most."

Rangy Bill Lawrence, Boise Division information systems manager, moved to Boise when he was 10 but later traveled the world during eight years in the Navy. "Quite simply, Boise is the best of the places I found to do what I like to do," says Bill.

While there are a number of transfers from other HP divisions who appreciate the Northwest environment, there are thousands of native Northwesterners who also welcome HP's expansion.

Nothing shows their eagerness better than the mountains of applications received daily at every division. When the Lake Stevens Instrument Division announced in June that it had some 50 jobs avail-
A good portion of Spokane Division will move into its new building in early March, but employment is increasing so rapidly that some departments will remain in the division’s two temporary buildings for the next few years.

Their love of horses was the deciding factor when Bob and Carol Sommar were offered the chance to move to Spokane Division from the San Francisco Peninsula. “We had horses when we lived in California,” explains Bob, “but I had to drive 10 minutes twice a day to feed them.” He now steps out his front door and walks 20 feet to his own barn where the horses are pampered.

Here, Moonbeam gives Carol a nuzzle with Bob’s approval.

able for local people, it was greeted by an onslaught of 5,000 applicants, two thirds of whom were unemployed. Employment supervisor Susan Bowick arranged two-minute initial interviews with all applicants. It took 12 hours a day for three weeks, she recalls, but the vacancies were filled and a pool of applications amassed.

After a similar hiring experience, Spokane Division decided to restrict the hours during which people can apply for employment. Vancouver Division accepts applications only for specific job openings because there are already so many qualified applications on file.

But if the electronics industry is to continue to grow and to employ ever greater numbers in the Northwest, universities must turn out graduates capable of working with sophisticated technology.

In a December speech to the Seattle Rotary Club, HP President John Young, who grew up in Oregon and graduated from Oregon State, pointed to the looming shortage of qualified engineering graduates in the U.S., particularly in the Northwest.

“In Washington,” he noted, “neither the University of Washington nor Washington State University has expanded its engineering program to keep pace with the needs of industry. Washington State recently cut its program by 20 percent.”
A lack of money for laboratory equipment and a shortage of engineering faculty have put the departments in their present predicament, said Young.

To ensure a steady flow of qualified engineering talent, HP divisions are helping Oregon State University (OSU), the University of Idaho and Washington State University overcome their engineering department limitations by donating HP equipment and by providing HP lecturers.

This year, Megha Shyam, R&D engineer for the Corvallis Division, is teaching a year-long course in integrated circuit design at nearby OSU to acquaint students with the bewildering complexity of VLSI circuitry. In Boise, the nearest electrical engineering department is located five hours away at the University of Idaho in Moscow. Roy Foote, Boise Division project manager, has overcome the distance problem by using a video link from the studio of a Boise television station to teach a course at the university.

Such educational arrangements are usually reciprocal. At most Northwestern divisions, HP engineers can take courses via video from accredited engineering schools. At OSU, 10 HP engineers, some of them working toward doctoral degrees, are attending the VLSI course along with five members of the Oregon State faculty.

The value of these programs shows up in the number of graduates recruited by HP. In 1981, the company hired 91 people who at one time or another graduated from OSU, with 78 of them remaining at the Corvallis division.

Says John Owen of OSU: "I thank my lucky stars for the day HP decided to locate in Corvallis. Not everyone got along with him when HP first came to town. For all its economic difficulties, the Northwest has a few outspoken groups which oppose industrial development of almost any kind.

To some HP people, this opposition is no surprise: the very areas that have the quality of community that makes them so attractive to HP are usually inhabited by people who appreciate their surroundings and fear new industry will destroy that environment.

"People here in Oregon want to preserve what they have," says Jerry Heman, U.S. service manager for handheld calculators "It's the 'close-the-door-and-pull-up-the-ladder' syndrome. They think, 'Now will change.'"

First in Corvallis and more recently in Lake Stevens, lawsuits regarding the annexation or zoning of HP land have led to public hearings and court action. In January, a superior court upheld the zoning of HP's wooded acreage on Soper Hill Road in Lake Stevens. Although further litigation is threatened, the people of citizens who brought the lawsuit is small in number, and HP appears to be supported by the great majority of the people, says Bill Kay.

In fact, during its public campaign, HP had the good fortune to be buttressed by a citizens group that organized itself on behalf of HP. "Naturally we want to be responsive to the concerns of all the residents, and I feel we are," says Bill. "But it is not easy to appease those who are totally opposed to any growth at all."

No-growth attitudes are subject to deeply personal feelings and are not easily changed. For one thing, cycles of employment and layoffs can make residents less receptive to industry. Six months before HP arrived in Vancouver, 1,000 employees were laid off at a nearby electronics plant:

"There was no obvious reason for the plant to close," recalls Ardis Bond, personnel manager for the Vancouver Division. "Every group I talked to asked, 'How long are you going to be here?'

This suspicion of industry in some areas means HP must put its ideals into practice daily to earn the community's trust, says Ardis.

But whether it is Boise and Spokane, where HP has been welcomed from the beginning, or Corvallis and Lake Stevens, where the going has been tough, a community almost always appreciates HP's presence once its people start contributing to its well being.

Maybe the first impact is felt by the retail firms in the area. One merchant in Corvallis has started to notice that every so often Terry Tallis, field support manager for the Corvallis Division, comes in to buy some furniture. The last time he came in, Terry was surprised to be greeted with a knowing smile. "Oh, I see you're spending your profit-sharing check," the merchant remarked.

In Spokane, printed circuits supervisor Jack Nourse remembers the way one fellow employee treated him when he found that the usual requirements to pay the first and last month's rent and cleaning deposit on an apartment were altered when the landlord learned the potential tenant worked for HP.

Upgrading the economic base by no means the only contribution HP people make to a community. "It never seems to take very long for our people to become active in United Way, Junior Achievement, youth programs, the arts and so many other worthy causes," notes Ray Smelek.

That involvement extends not only to community activities but also to state and regional social issues. Washington's three general managers (Bill Kay, Ned Barnholt and Jim Doub) expect to meet regularly to determine how HP will promote engineering education.

In energy, another area important to HP's growth, Ray Smelek takes the lead in the Northwest.

"We have to make the public more aware of the need for sufficient energy in the future to support projected industrial growth, as well as to emphasize the relatively minor energy consumption of a company like HP," he explains.

It seems clear that the company, its employees and the communities in which HP has located have all benefited from HP's expedition into the Pacific Northwest.

During a recent public hearing in Corvallis, one of the two dozen people speaking on behalf of HP was an Oregon state legislator. In the last two years, HP has generated $6 million in taxes in Corvallis alone, he said, adding that "I only wish we had about 15 more HPs... to help stabilize the economy of this state."

One day he may get his wish, or at least part of it. In Seattle, President John Young made a firm commitment to continue the company's "settlement" in the Northwest. "We intend to increase our participation here, providing employment opportunities and in other ways being a good corporate citizen."

Though it always takes time to live out, HP's good citizenship has had lasting effects in the Northwest. Says Corvallis' Fred Hanson: "When I came here about five years ago, there were still some pockets of resentment. Now we seldom find someone who is opposed to HP. It may have been a rough courtship, but it makes for a solid marriage."
SLAYING DRAGONS AND SOLVING PROBLEMS

What's a target? What's a goal? What's an objective?

These are all highly familiar terms around HF. Yet they seem to have a very similar meaning. Almost interchangeable, one might think. What's the difference?

Here's one way to sort them out—and solve problems of misinformation and faulty communication—thanks to Fred Waldron, trainer of HF neophyte salespeople. Fred's approach to solving such a problem is to think of it in terms of a medieval castle, complete with surrounding moat, drawbridge, fire-breathing dragons and evil tyrant. In the tower is a royal captive (prince or princess, as you wish) who holds the keys to your kingdom, but can't get out.

To solve your problem, of course, you first have to approach and capture the castle. That's your objective.

But before you can enter and subdue the tyrant, you must identify and slay all the dragons. They are the negatives in any problem situation, and must be challenged one by one with the shining lance of the truth. They are your targets. Hit 'em hard!

Now you can proceed on your rescue mission and return the prince or princess to your kingdom. That's your goal.

Problem solved. Or is it? Let us know if you have any problems with this solution, or a better solution to the problem.
This special eight-page section of Measure is a moment frozen in time. It gives you a chance to look back at Hewlett-Packard's highlights and successes in 1981. Compare last year's results with those of previous years. Examine the structure of the organization as we enter 1982.

Hewlett-Packard had net sales of $3.58 billion in its 1981 fiscal year (Nov. 1, 1980 to Oct. 31, 1981). Here's where the sales came from, and where the sales dollar was spent.

**HOW WE SPENT IT**

- 48 cents — Profit from operations
- 7 cents — Pension and profit-sharing to employees
- 15 cents — Dividend to shareholders
- 8 cents — Reinvested in company to finance growth
- 13 cents — Cost of managing and operating business
- 8 cents — Income taxes to federal, state and foreign governments
- 5 cents — Cost of developing new products
- 8 cents — Cost of marketing and selling products
- 38 cents — Cost of manufacturing products
- 29 cents — Electronic test and measurement
- 29 cents — Electronic data products
- 10 cents — Medical electronic equipment
- 8 cents — Analytical instrumentation

**HOW WE MADE IT**
Medical's Dick Alberding and Europe's Franco Mariotti elected VPs, while Marketing's Al Oliverio, International's Bill Doolittle and Treasurer Ed von Bronkhurst move up to senior VPs. South Queensferry Division changes name to Queensferry Telecommunications Division. New: Manufacturer's Productivity Network.

July

HP reports $936 million in sales (up 15 percent) and $81 million in net earnings (up 14 percent) for the third quarter of FY81. Telnet, HP's own U.S. long-distance telecommunications system, goes nationwide. HP 125 and new HP 250 office computers: low-price HP 2623A graphics terminal. 16-bit emulator for HP 64000 System.

AUGUST

First HP ads on U.S. network television air as part of campaign on major sports and news programs during fall. Technical Computer Group forms new Computer Integrated Circuits Division. Corvallis Division unveils HP-11C and HP-12C slim-design calculators. Five HP "loaned professors" start school year.

SEPTEMBER

New Electronic Measurements Group is formed within Instrument Group. HP acquires distribution software firm (Information Resources Ltd. of Denver, Colo.) as part of Business Computer Group. HP makes impact with introduction of 27 products for office computer market including HP 3000 Series 64 and 44.

OCTOBER


November

A new Computer Terminals Group forms within the Computer Groups. HP Labs' Computer Research Center announces reorganization. HP distributes more than $45.8 million in cash profit-sharing worldwide. Hewlett-Packard Interface Loop (HP II) introduced to link personal computing products and low-cost test instruments.

December


January

Growth of sales activities in the People's Republic of China results in Intercontinental's creating a "country" management entity. Steve Adam elected Fellow of I.E.E.E. ROUTS system is added to COMSYS Central. San Diego Division introduces large-format HP 7580 plotter with grit-wheel paper transport design.

February

First quarter FY81 sets all-time order record of $931 million. At annual shareholders' meeting Feb. 24, Francis L. Moseley retires from the board of directors. Harold J. Haynes is elected to board. HP's 32-bit "Super Chip" with 450,000 transistors creates stir. HP 4700 "PageWriter" electrocardiograph is introduced.

March

The Computer Groups open road show of "Productivity '81" exhibits seminars in Los Angeles, with six other cities on the schedule. Results of Open Line survey of U.S. employees are summarized in Measure. Instrument Founders Club is announced. Quality expert W. Edwards Deming gives seminar for HP managers.

April

The name of Delcon Division changes to Colorado Telecommunications Division as part of a phased move from Mountain View, Calif., to Colorado Springs. Two HP 41C calculators are used on the flight of space shuttle Columbia. HP's first teleconference is held April 2 with transmission from Palo Alto to 38 U.S. cities.

May

Second quarter FY81 sales up 15 percent, net earnings up 14 percent. Two-for-one split of HP common stock. $38 million in cash profit-sharing checks. Barney Oliver retires as VP-R&D. HP Labs announces E-Beam lithography system. HP to 120th place on the Fortune 500 ranking. Personal Computer Group formed.
Hewlett-Packard continued to build toward the future during FY81 by adding 1,846,000 square feet in HP-owned manufacturing, administration and central research buildings plus another 422,000 square feet of its own sales and service buildings. That brought the total of HP-owned facilities to approximately 13,206,000 square feet out of the 17,815,000 square feet of space owned or leased at year's end.

During FY81 the company optioned or purchased several large sites for future development in Europe and the U.S.; purchase of 50 acres in Bristol, England (with an option for an additional 116 acres) for expansion of the Peripherals Group; the purchase of 266 acres for a second site in Colorado Springs, Colorado; purchase of the remaining acres in a 133-acre site for the permanent facility of the Lake Stevens Instrument Division in western Washington; an option on 320 acres in Longmont, Colorado (which was subsequently purchased in January of this year), and an option on some 140 acres outside Lyon, France. In addition, HP expanded its recreational facilities in Northern Colorado by the purchase of 3,200 acres in Larimer County.

Altogether, HP invested $318 million in new property, plants and equipment during FY81—$21 million more than the year before.

### HP-Owned Projects Completed—FY81

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### Other Facilities

- Corporate, Palo Alto, Calif. 478,000
### Hewlett-Packard
#### Corporate Organization
#### January, 1982

#### ADMINISTRATION
- Bob Boniface, Executive Vice President

#### CORPORATE STAFF
- **Corporate Controller**
  - Jerry Carlson
  - Bruce Wholey
- **Controller**
  - Corporate Services
- **Corporate Services**
  - Government Relations
  - International
  - Patents and Licenses
  - Personnel
  - Public Relations
  - Secretary
  - Marketing
  - Treasurer
- **Executive Vice President**
  - Ed van Bronkhorst

#### EUROPE
- **Franco Mariotti**
  - Vice President
  - Field Sales Regions
    - Germany
    - France
    - United Kingdom
    - South/Eastern Europe
    - Northern Europe
  - Manufacturing
    - United Kingdom
    - Germany
    - France

#### INTERCONTINENTAL
- **Alan Bickeli**
  - Managing Director
  - Field Sales Regions
    - Japan
    - Far East
    - Australasia
    - South Africa
    - Latin America
  - Manufacturing
    - Singapore
    - Malaysia
    - Puerto Rico
    - Brazil

#### U.S.-CANADA SALES
- **Field Sales Regions**
  - Eastern
  - Mid-West
  - Southern
  - Neely (Western)
  - Canada
  - Corporate Parts Center

#### COMPUTER MARKETING GROUP
- **Jim Arthur**
  - General Manager
  - YHP Computer
  - Systems Remarketing
  - Computer Support
  - Worldwide Sales
  - Computer Supplies

#### COMPUTER TERMINALS GROUP
- **Cyril Yansouni**
  - General Manager
  - Data Terminals
  - General Systems
  - Grenoble
  - Puerto Rico

#### BUSINESS COMPUTER GROUP
- **Ed McGucken**
  - General Manager
  - Computer Systems
  - Information Networks
    - Pinewood
  - Böblingen General Systems
    - Application Systems

#### TECHNICAL COMPUTER GROUP
- **Doug Chance**
  - General Manager
  - Data Systems
  - Roseville
  - Desktop Computer
    - Engineering Sys.
  - Böblingen Desktop
  - Computer I.C.
    - Cupertino I.C.
    - Systems Technology

#### COMPUTER PERIPHERALS GROUP
- **Dick Hackborn**
  - General Manager
  - Boise
  - Disc Memory
  - Greeley
  - Vancouver

#### MICROWAVE COMMUNICATIONS GROUP
- **Hal Edmiston**
  - General Manager
  - Colorado
  - Queen
  - Stanford
  - Spokane
  - Manufacturing
  - Signal
  - Network
  - Santa Center

#### U.S. CANADA SALES
- **Field Sales Regions**
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  - Southern
  - Neely (Western)
  - Canada
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- **Jim Arthur**
  - General Manager
  - YHP Computer
  - Systems Remarketing
  - Computer Support
  - Worldwide Sales
  - Computer Supplies
PRODUCT DIVISIONS
An HP product division is a vertically integrated organization that conducts itself very much like an independent business. Its fundamental responsibilities are to develop, manufacture and market products that are profitable and which make contributions in the marketplace by virtue of technological or economic advantages.
Each division has its own distinct family of products, for which it has worldwide marketing responsibility. A division also is responsible for its own accounting, personnel activities, quality assurance and support of its products in the field. In addition, it has important social and economic responsibilities in its local community.

PRODUCT GROUPS
Product groups, which are composed of divisions having closely related product lines, are responsible for coordinating the activities of their respective divisions. The management of each group has overall responsibility for the operations and financial performance of its members. Further, each group has worldwide responsibility for its manufacturing operations and sales-and-service forces. Management staffs of the four U.S. sales regions and two international headquarters (European and intercontinental operations) assist the groups in coordinating the sales-and-service functions.

The group management structure provides a primary channel of communication between the divisions and corporate departments.

CORPORATE OPERATIONS
Corporate Operations Management has responsibility for the day-to-day operation of the company. The executive vice presidents in charge of Corporate Operations are directly responsible to HP's president for the performance of their assigned product groups; they also provide a primary channel of communication between the groups and the president.

CORPORATE ADMINISTRATION
The principal responsibility of Corporate Administration is to insure that the corporate staff offices provide the specialized policies, expertise and resources to adequately support the divisions and groups on a worldwide basis. The executive vice president in charge of Corporate Administration also reports to the president, providing an important upward channel of communication for the corporate staff activities.

The Marketing and International offices, through the U.S. sales regions and two international headquarters, insure that—on a worldwide basis—all corporate policies and practices are followed and that local legal and fiscal requirements are met.
CORPORATE RESEARCH AND DEVELOPMENT

HP Laboratories is the corporate research and development organization that provides a central source of technical support for the product-development efforts of HP product divisions. In these efforts, the divisions make important use of the advanced technologies, materials, components and theoretical analyses researched or developed by HP Labs. Through their endeavors in areas of science and technology, the corporate laboratories also help the company evaluate promising new areas of business.

BOARD OF DIRECTORS

The Board of Directors and its chairman have ultimate responsibility for the legal and ethical conduct of the company and its officers. It is the board's duty to protect and advance the interests of the stockholders, to foster a continuing concern for fairness in the company's relations with employees and to fulfill all requirements of the law with regard to the board's stewardship. The board counsels management on general business matters and also reviews and evaluates the performance of management. To help handle these responsibilities, the board has formed various committees to oversee the company's activities and programs in such areas as employee benefits, compensation, financial auditing and investment.

PRESIDENT

The president has responsibility for the overall performance and direction of the company, subject to the authority of the Board of Directors. Also, the president is directly responsible for corporate development and planning functions, and for HP Labs.

EXECUTIVE COMMITTEE

This committee meets weekly to set and review corporate policies, and to make coordinated decisions on a wide range of current operations and activities. Members include the Executive Committee chairman, the chairman of the board, the president and the executive vice presidents for operations and administration. All are members of the Board of Directors.

OPERATIONS COUNCIL

Primary responsibilities of this body are to review operating policies on a broad basis and to turn policy decisions into corporate action. Members include the executive vice presidents, product group general managers, the senior vice presidents of Marketing and International, the vice president—Europe and the managing director of Intercontinental.

Taking stock in HP

Just over 69 percent of eligible HP employees participated in the company’s stock-purchase plans in Fiscal 1981. Of the 46,449 people who were eligible, 28,784 purchased HP stock certificates under the regular plan; another 3,280 participated in local variations of the plan. Proceeds from the sale of stock from all plans, including stock options, amounted to $67 million which will be put to use in financing future growth.
a ten-year look

NET SALES (Millions)

483 669 893 985 1,121 1,368 1,737 2,361 3,099 3,578

EMPLOYEES (thousands)

21 28 29 30 32 35 42 52 57 64

SALES PER EMPLOYEE (thousands)

23 24 31 33 35 39 41 45 54 56
The product was put together so quickly, in fact, that it even beat the rumor mill. As Srini puts it, "HP saw there was a need in the marketplace and decided to get our product out before the competition could."

The Winchester disc drives are the first in HP's 5 1/4" line and provide a lot of data storage capacity in a small space. They are compatible with both the HP 85 and 125 product lines, as well as desktop and mini computers.

Last September Srini, Rick Spangler (Greeley's manufacturing engineering manager) and others met in Boise with Disc Memory Division people to figure out which division should work on the project. "Since we didn't have any products ready for introduction at the time, Greeley was chosen," says Srini.

That was September 22. Over the next weekend, three Greeley manufacturing engineers—Sean Tracy, Bob Chalstrom and Ron Jones—came up with a prototype.

Five days later a team from Greeley went on a division tour to enlist the support that was crucial to the project's success. Srini and Rick worked mostly with four divisions—General Systems, Corvallis, Desktop Computer and Data Systems—to ask their R&D labs to make sure the product worked with their systems, and to get their marketing departments to include the new peripheral in their marketing plans.

Back at Greeley, a crack team was assembled from all functional areas to work on the project.

Other key ingredients were the product regulations managers in both the U.S. and Europe. "We needed to get through all the safety and radio frequency interference clearances which usually take several weeks," Srini recalls. "Everyone involved caught the enthusiasm and cut through the red tape."

During one crucial period, Judy Lindberg at General Systems Division tested and completed a 20-plus page analysis on a Friday which was needed in Europe the following Monday. To get it there, Srini took a night flight from California to Colorado where he met Geoff Kirk, Greeley's European marketing support engineer. Geoff caught a Saturday flight to Germany in time for Dieter Gann, European product regulations manager, to get the report to the regulatory agencies on Monday morning.

By mid-November, the product was into its pilot run, helped along by Loveland Instrument Division lab shops which made critical parts in days instead of the usual weeks.

To get the product on the January 1 price list, Greeley had to build enough 9134/35s to get an idea of what they cost. "It usually takes eight weeks to put through a pricing proposal but Computer Marketing Group's controller, Russ Martin, did it in less than half that time," Srini remembers.

In December, the product went to Computer Support Division which helped Greeley develop its diagnostic (self-test) strategy.

January was spent training service people and the sales force, all under the direction of AI Herder, Greeley product manager, and service engineer John Gibson.

There were many, many others who contributed to getting the product out the door, adds Srini.

"There was such a 'can do' attitude among everyone," he says. "A lot of people see HP as a big company that is slow to react so we surprised them with how quickly we introduced the Winchester drives."

"It even surprised me. I've been with HP 17 years, and it was both refreshing and encouraging to see HP people all over the world work together to make things happen."

Ralph Ferrara, Greeley Division process engineering manager, and assembler Toby Madina check out one of the first 9134 Winchester disc drives developed in 14 hectic weeks.

There's a well-worn saying that the larger the company, the longer it takes to get anything done. That's one statement that can now be disputed at HP thanks to the company's worldwide chain which enabled Greeley Division to introduce two new products—the 9134 and 9135 Winchester drives—in just 14 weeks.

Srini Nageshwar, Greeley's marketing manager, says it would never have made its January 1 introduction date without the cooperation of a dozen or more divisions both in the U.S. and Europe.

January-February 1982
Poised on Japan’s Mount Tsurumidahe for a swooping descent by a hang glider marked “HP” is Heinz Schlepple, who competed with the West German team in the third World’s Hang-gliding Championship held last December on Kyushu Island.

Result of the 10-day competition, a world championship for the West Germans in class II (gliders with an aerodynamic control system)—the class Heinz competed in. He earned 14th rank out of 21 pilots, 10 of them professionals.

Heinz, a plant maintenance supervisor at the Boeblingen facility, has been hang gliding for five years and won a spot on the national team by piling up points in competition. The World Championship offered a special challenge. “Some landing areas were on a higher level than the starting points—after flying distances of more than 12 km,” says Heinz.

Also in Japan was Maarten Brandt of HP Amsterdam, the Dutch team coach.

Albert Siu and Brian Picht are making beautiful music with the Boise Philharmonic Orchestra when they’re not working at HP. Albert, a senior personnel administrator with HP and a cellist with the orchestra, began studying music in Hong Kong. “One of the first things I did after arriving in Boise was call the conductor of the orchestra. He arranged for an audition and I’ve played ever since.”

Brian, a mechanical engineer and concert violinst, was president of the Massachusetts Institute of Technology Orchestra. “When I came to interview in Boise, Albert was the college recruiting coordinator. Finding a company in a city where I could play in an orchestra was high on my list of priorities.”

Practicing and performing take up to 20 hours a week, but it’s time well spent, according to Albert. “Besides, I could never be happy only sitting in the audience.”
Retirement parties are nothing new around HP. But the guest of honor at a September party at Santa Clara Division was a 19-year veteran of the division’s product line: the HP 5245L frequency counter.

Master of ceremonies Vince Yaras, from the Eastern Sales Region, presented a front-panel plaque to Al Bagley, former division manager. The '45, as it is known, was one of the first high-speed counters to use transistors in place of vacuum tubes. Nearly 38,000 units were manufactured by the division in the 19 years of production. Other guests at the retirement party included people from the 1962 and current division staffs, production line members who worked on the instrument’s pilot and final runs, and marketing employees, then and now.

There will always be more things you want to buy than you have money for.” That sums up the financial philosophy of Chet Harmer, accounting manager at Data Systems Division.

Chet is probably HP’s most prolific Personal Money Management instructor. He teaches the class 16 days a month, 11 months a year.

When he found there weren’t any textbooks available that “answered questions on a level that most people could understand,” Chet decided to write one. The result: “How to Run Out of Month before You Run Out of Money.” If you’re interested in buying a copy, contact Chet at DSD.

History enthusiast Ron MacInnis and his family stopped at Philadelphia’s Independence Hall on his march to the Battle of Yorktown. Ron, applications engineer in Waltham Division’s marketing department, was one of thousands who helped wrap up the six-year celebration of the American Revolution Bicentennial with a re-enactment of the battle which brought independence to the 13 colonies.

U.S. and French presidents Ronald Reagan and François Mitterrand and 180,000 tourists watched as the volunteer troops from 23 U.S. states played the roles of Lord Cornwallis’ redcoats, George Washington’s colonials and Jean-Baptiste de Rochambeau’s 85th Regiment.
The Statement of Corporate Objectives was revised recently to give emphasis to certain elements of increasing importance in HP's business. The full statement is presented on the next pages, followed by President John Young's comments.

THE ORGANIZATIONAL FRAMEWORK FOR OUR OBJECTIVES

The achievements of an organization are the result of the combined efforts of each individual in the organization working toward common objectives. These objectives should be realistic: should be clearly understood by everyone in the organization and should reflect the organization's basic character and personality.

If the organization is to fulfill its objectives, it should strive to meet certain other fundamental requirements:

FIRST, there should be highly capable, innovative people throughout the organization. Moreover, these people should have the opportunity—through continuing programs of training and education—to upgrade their skills and capabilities. This is especially important in a technical business where the rate of progress is rapid. Techniques that are good today will be outdated in the future, and people should always be looking for new and better ways to do their work.

SECOND, the organization should have objectives and leadership which generate enthusiasm at all levels. People in important management positions should not only be enthusiastic themselves, they should be selected for their ability to engender enthusiasm among their associates. There can be no place, especially among the people charged with management responsibility, for half-hearted interest or half-hearted effort.

THIRD, the organization should conduct its affairs with uncompromising honesty and integrity. People at every level should be expected to adhere to the highest standards of business ethics, and to understand that anything less is totally unacceptable. As a practical matter, ethical conduct cannot be assured by written policies or codes, it must be an integral part of the organization, a deeply ingrained tradition that is passed from one generation of employees to another.

FOURTH, even though an organization is made up of people fully meeting the first three requirements, all levels should work in unison toward common objectives, recognizing that it is only through effective, cooperative effort that the ultimate in efficiency and achievement can be obtained.

It has been our policy at Hewlett-Packard not to have a tight, military-type organization, but rather to have overall objectives which are clearly stated and agreed upon, and to give people the freedom to work toward those goals in ways they determine best for their own areas of responsibility.

Our Hewlett-Packard objectives were initially published in 1957. Since then they have been modified from time to time, reflecting the changing nature of our business and social environment. The following text represents the latest updating of our objectives. We hope you find them informative and useful.

Chairman of the Board

Chairman of the Executive Committee

President and Chief Executive Officer

January 1982

PROFIT: To achieve sufficient profit to finance our company growth and to provide the resources we need to achieve our other corporate objectives.

In our economic system, the profit we generate from our operations is the ultimate source of the funds we need to prosper and grow. It is the one absolutely essential measure of our corporate performance over the long term. Only if we continue to meet our profit objectives can we achieve our other corporate objectives.

Our long-standing policy has been to reinvest most of our profits and to depend on this reinvestment, plus funds from employee stock purchases and other cash flow items, to finance our growth.

Profits vary from year to year, of course, reflecting changing economic conditions and varying demands for our products. Our needs for capital also vary, and we depend on short-term loans to meet those needs when profits or other cash sources are inadequate. However, loans are costly and must be repaid. Thus, our objective is to rely on reinvested profits as our main source of capital.

Meeting our profit objective requires that we design and develop each and every product so that it is considered a good value by our customers, yet is priced to include an adequate profit. Maintaining this competitiveness in the marketplace also requires that we perform our manufacturing, marketing and administrative functions as economically as possible.

Profit is not something that can be put off until tomorrow. It must be achieved today. It means that myriad jobs be done correctly and efficiently. The day-to-day performance of each individual adds to— or subtracts from—our profit. Profit is the responsibility of all.
2 CUSTOMERS: To provide products and services of the highest quality and the greatest possible value to our customers, thereby gaining and holding their respect and loyalty.

The continued growth and success of our company will be assured only if we offer our customers innovative products that fill real needs and provide lasting value, and that are supported by a wide variety of useful services, both before and after sale.

Satisfying customer needs requires the active participation of everyone in the company. It demands a total commitment to quality, a commitment that begins in the laboratory and extends into every phase of our operations. Products must be designed to provide superior performance and long, trouble-free service. Once in production, these products must be manufactured at a reasonable cost and with superior workmanship.

Careful attention to quality not only enables us to meet or exceed customer expectations, but it also has a direct and substantial effect on our operating costs and profitability. Doing a job right the first time, and doing it consistently, sharply reduces costs and contributes significantly to higher productivity and profits.

Once a quality product is delivered to the customer, it must be supported with prompt, efficient services of the same high quality.

Good communications are essential to an effective field sales effort. Because of our broad and growing line of products, very often several sales teams will be working with a single customer. These teams must work closely together to assure that the products recommended best fulfill the customer's overall, long-term needs. Moreover, HP customers must feel that they are dealing with one company, a company with common policies and services, and one that has a clear understanding of their needs and a genuine interest in providing proper, effective solutions to their problems.

3 FIELDS OF INTEREST: To build on our strengths in the company's traditional fields of interest, and to enter new fields only when it is consistent with the basic purpose of our business and when we can assure ourselves of making a needed and profitable contribution to the field.

Our company's growth has been generated by a strong commitment to research and development, and has been accomplished in two ways - first, by providing a steady flow of new products to markets in which we are already well established; and second, by expanding our technology into fields that are new but related to our traditional ones. The evolution of the HP product line is a reflection of this two-dimensional growth.

Our first products were electronic measuring instruments used primarily by engineers and scientists. In time, we extended our range of products to include solid-state components and instrumentation for the fields of medicine and chemical analysis. Recognizing our customers' needs to gather and assimilate large quantities of measurement data, we developed a family of computers to complement HP measuring devices. By linking measurement and computational technologies, we gained added strength in our traditional, technically oriented markets and began to serve the broader needs of business and industry.

Today, the interactive capabilities of Hewlett-Packard instruments and systems enable our customers - decision makers in business as well as technical fields - to gain ready access to essential information, to put it into meaningful form, and to use it effectively in improving the productivity of themselves and their organizations. Helping these customers achieve better results is the unifying purpose of our business. The areas we serve build on each other to add strength to our company and provide additional values to our customers. This guides our interest, our organization and our marketing philosophy.

The broad scope of HP technology often provides opportunities for our company to expand into new fields. Before entering a new field, however, we must satisfy ourselves that it is consistent with our business purpose and that it affords us the opportunity to make a significant contribution. This requires that we have not only the technology to create truly innovative and needed products, but that we also have the capability to manufacture and market them effectively and at a reasonable profit.

4 GROWTH: To let our growth be limited only by our profits and our ability to develop and produce innovative products that satisfy real customer needs.

How large should a company become? Some people feel that when it has reached a certain size there is no point in letting it grow further. Others feel that bigness is an objective in itself. We do not believe that large size is important for its own sake, however, for at least two basic reasons. Continuous growth in sales and profits is essential for us to achieve our other objectives.

In the first place, we serve a dynamic and rapidly growing segment of our technological society. To remain static would be to lose ground. We cannot maintain a position of strength and leadership in our fields without sustained and profitable growth.

In the second place, growth is important in order to attract and hold high-caliber people. These individuals will align their future only with a company that offers them considerable opportunity for personal progress. Opportunities are greater and more challenging in a growing company.

5 OUR PEOPLE: To help HP people share in the company's success which they make possible; to provide job security based on their performance; to insure them a safe and pleasant work environment; to recognize their individual achievements; and to help them gain a sense of satisfaction and accomplishment from their work.

We are proud of the people we have in our organization, their performance and their attitude toward their jobs and toward the company. The company has been built around the individual; the personal dignity of each and the recognition of personal achievements; relationships within the company depend upon a
spirit of cooperation among individuals and groups, and an attitude of trust and understanding on the part of managers toward their people. These relationships will be good only if employees have faith in the motives and integrity of their peers, supervisors and the company itself.

On occasion, situations will arise where people have personal problems which temporarily affect their performance or attitude, and it is important that people in such circumstances be treated with sympathy and understanding while the problems are being resolved.

Job security is an important HP objective. Over the years, the company has achieved a steady growth in employment by constantly developing good, new products, and by avoiding the type of contract business that requires hiring many people, then terminating them when the contract expires. The company wants HP people to have stable, long-term careers—dependent, of course, upon satisfactory job performance.

Another objective of HP's personnel policies is to enable people to share in the company's success. This is reflected in a pay policy and in employee benefit programs that put us among the leaders in our industry.

There is also a strong commitment at HP to the concept of equal opportunity, and affirmative action, not only in hiring but also in providing opportunities for advancement. Advancement is based solely upon individual initiative, ability and demonstrated accomplishment. Since we promote from within whenever possible, managers at all levels must concern themselves with the proper development of their people, and should give them ample opportunity—through continuing programs of training and education—to broaden their capabilities and prepare themselves for more responsible jobs.

The physical well-being of our people has been another important concern of HP's since the company's founding. With the growing complexity and diversity of our research and manufacturing processes, we must be especially vigilant in maintaining a safe and healthful work environment.

We want people to enjoy their work at HP and to be proud of their accomplishments. This means we must make sure that each person receives the recognition he or she needs and deserves. In the final analysis, people at all levels determine the character and strength of our company.

**MANAGEMENT: To foster initiative and creativity by allowing the individual great freedom of action in attaining well-defined objectives.**

In discussing HP operating policies, we often refer to the concept of "management by objective." By this we mean that, insofar as possible, each individual at each level in the organization should make his or her own plans to achieve company objectives and goals. After receiving supervisory approval, each individual should be given a wide degree of freedom to work within the limitations imposed by these plans, and by our general corporate policies. Finally, each person's performance should be judged on the basis of how well these individually established goals have been achieved.

The successful practice of "management by objective" is a two-way street. Management must be sure that each individual understands the immediate objectives, as well as corporate goals and policies. Thus a primary HP management responsibility is communication and mutual understanding. Conversely, employees must take sufficient interest in their work to want to plan it to propose new solutions to old problems, to stick their necks out when they have something to contribute. "Management by objective" as opposed to management by directive, offers opportunity for individual freedom and contribution, it also imposes an obligation for everyone to exercise initiative and enthusiasm.

In this atmosphere it is important to recognize that cooperation between individuals and between operating units is essential to our growth and success. Although our operations are decentralized, we are a single company whose overall strength is derived from mutually helpful relationships and frequent interaction among our dispersed but interdependent units.

It is important, as well, for everyone to recognize there are some policies which must be established and maintained on a companywide basis. We welcome recommendations on these companywide policies from all levels, but we expect adherence to them at all times.

**CITIZENSHIP: To honor our obligations to society by being an economic, intellectual and social asset to each nation and each community in which we operate.**

All of us should strive to improve the environment in which we live. As a corporation operating in many different communities throughout the world, we must make sure that each of these communities is better for our presence. This means identifying our interests with those of the community, it means applying the highest standards of honesty and integrity to all our relationships with individuals and groups. It means enhancing and protecting the physical environment; building attractive plants and offices of which the community can be proud; it means contributing talent, time and financial support to worthwhile community projects.

Each community has its particular set of social problems. Our company must help to solve these problems. As a major step in this direction, we must strive to provide worthwhile employment opportunities for people of widely different backgrounds. Among other things, this requires positive action to seek out and employ members of disadvantaged groups, and to encourage and guide their progress toward full participation at all position levels.

As citizens of their community, there is much that HP people can and should do to improve it—either working as individuals or through such groups as churches, schools, civic or charitable organizations. In a broader sense, HP's "community" also includes a number of business and professional organizations, such as engineering and scientific societies, whose interests are closely identified with those of the company and its individual employees. These, too, are deserving of our support and participation. In all cases, supervisors should encourage HP people to fulfill their personal goals and aspirations in the community as well as attain their individual objectives within HP.

At a national level, it is essential that the company be a good corporate citizen of each country in which it operates. Moreover, our employees, as individuals, should be encouraged to help in finding solutions to national problems by contributing their knowledge and talents.

The betterment of our society is not a job to be left to a few; it is a responsibility to be shared by all.
During a recent visit to the Lake Stevens Instrument Division near Seattle, Washington, President John Young chatted with employees over a morning cup of coffee.

HP's Corporate Objectives have been, and are, of central importance in conducting the affairs of our company and in providing all of us with a common direction as we go about our respective tasks. These objectives were first written down by Bill Hewlett and Dave Packard in 1957 and represented the distilled wisdom of the first 18 years of business. Occasionally the objectives have been reviewed and adapted to changed circumstances. The last extensive update was in 1974. As Bill observed in his message in Measure at the time, in comparing the original with the revised version: "Our key objectives have changed little. They have stood the test of time well."

Our company and the world around us have changed a great deal in the ensuing seven years. Accordingly, we have recently reviewed and revised the objectives and presented them at the General Managers meeting at the end of January. In the full text of the objectives, printed in this issue, you will see that the revisions are mainly a matter of emphasis and expanded definition; the central tenets are firmly in place.

Rather than go through the details of these revisions, let me just highlight a few key areas. The first has to do with quality. HP has always been noted for the high quality of its products and services. However, changes in the worldwide competitive environment cause us to reevaluate what high quality means, and to change our expectations of what we must achieve to continue being regarded as a quality leader. To reinforce this point, our 'Customer' objective has been strengthened to make clear that high quality must be designed in, takes a team effort, extends to all services, and — if done well — lowers the costs of supplying products and services. There are no surprises here, and we're active on many fronts across the company to meet this challenge.

The third objective, 'Fields of Interest', is the most changed. It used to say we should not enter new fields unless we have the ability to make contributions in those areas. The new statement is more affirmative: to build on our strengths and to enter new fields only when they're consistent with our business purpose.

The point is this: we do not want to operate as a computer company, an electronic instrument company, or a medical electronic company, etc. Rather, the strength of Hewlett-Packard stems from combining our know-how and products, and focusing them on selected customer-problem areas. By this rewording of the objective, it becomes clear that we want to maintain an integrated, total-team effort with a common purpose. This helps to avoid the very difficult problems that would result from managing a large, diverse corporation having little internal cohesion. This point is restated in objective six, 'Management', where we talk about the need for cooperation and teamwork in maintaining ourselves as a single company whose overall strength is derived from dispersed but interdependent entities.

A third area of change relates to our people. More prominence is given to considerations of health, safety and the well being of people on the job. Additionally, we have clarified our commitment to equal opportunity and affirmative action.

I encourage you to read through the objectives. Strong and steady adherence to their basic precepts adds direction and force to our company: these precepts will be as important to our success in the years ahead as they have been in the past.
NEWS CLIPS

Recaps the newsworthy events, changes and achievements within HP.

REDRAWING THE CHART
Cyriel Yansouni has been named GM of a new Computer Terminals Group within the Computer Groups. It comprises all HP facilities involved in design and manufacture of terminal products (Data Terminals and Grenoble divisions and manufacturing activities in Roseville, Calif., and Puerto Rico) and the General Systems Division. Yansouni will also continue as GM of DTD and group headquarters will be in Sunnyvale, Calif. ... HP Labs’ Computer Research Center (CRC) has been reorganized into three labs. Computer Science Laboratory under Bert Raphael (software and applications); Systems Research Laboratory which CRC director Joel Birnbaum will head as acting director (computer and network systems); the renamed Measurement and Communications Laboratory under Zvonko Fazarinc (network and connection components and circuits for a future generation of the Manufacturer’s Productivity Network).

INSTRUMENT GROUPS
Bill Tippett has moved up from marketing manager to GM of the Loveland Instrument Division. The Civil Engineering Division was merged in January with the Loveland Instrument Division, which will continue to manufacture, market and support the civil engineering product line. In new marketing assignments, Walt Sousa to the new post of marketing manager for the Microwave and Communications Instruments Group. With Suresh Rapsal succeeding him as Intercontinental Instrument marketing manager, Tony Bellhouse to marketing manager for Queensferry Telecommunications Division ... Inducted into the Founders Club for 1981: HP Canada’s Joe Freer, Eastern Sales Region’s Mike Everhart, Neely’s Tim Tinh.

DOWN UNDER
David Booker has been named manager of Intercon’s Australasian Area and country manager for Australia, replacing John Warmington who retired the end of October after an association of 33 years with HP. Warmington will continue to serve as board chairman of the Australian subsidiary and act as a consultant to the company.

NEWSWORTHY
HP’s Santa Rosa facility won the $1,000 grand prize in the 1981 Outstanding Plant Engineering Program of the Year competition sponsored by the American Institute of Plant Engineers and Locitite Corporation. It was based on use of computer technology for energy management and space-utilization forecasting, among other programs ... Dave Bloom of HP Lab’s Applied Physics Lab has been elected a Fellow of the Optical Society of America. ... At the end of the second half of the company’s 1981 fiscal year, HP distributed more than $45.8 million to nearly 55,000 eligible employees under the cash profit-sharing plan ... The HP-produced movie “Just Three People” (featured in Measure Nov.-Dec. 1980) about three HP employees with physical disabilities is receiving attention outside the company. It has won awards in three film competitions and been shown on public television.

GETTING IT TOGETHER
Introduced on Dec 21: the Hewlett-Packard Interface Loop (HP-ILL), a new two-wire serial interface bus designed for battery-operated instruments. It makes possible low-cost computation and control systems based on HP’s personal computing products such as the HP-41 C family of handheld calculators. Electronic Design featured HP-ILL on the cover of its Dec 14 issue and gave it a 20-page story inside.

Included in the debut were four new plug-in modules from the Corvallis Division which give the HP-41 C and HP-41 CV more functions, memory and time-based programming control, and Loveland Instrument Division’s HP 3468A digital multimeter which operates on batteries or AC.

OTHER NEW PRODUCTS
Desktop Computer Division’s new HP 9836A desktop computer offers a larger CRT and internal double floppy disc, increased capacity for memory, and PASCAL language ... Also from DCD are three modules compatible with the HP 9845 family of desktop computer systems which offer general drawing, PC board layout and schematic drawing capabilities ... The HP 1360 graphics system from Colorado Springs Division will support more than a dozen HP peripherals including printers, plotters and external mass storage devices—useful for the single user. ... Colorado Telecom’s new primary multiplex analyzer HP 37779/D adds a number of new measurements for testing in all phases of digital telecommunications systems. The result of a major engineering effort, the product has improved speed and accuracy. The Santa Clara Division has brought out HP’s first product in the field of waveform capture—the HP 5180A waveform recorder, which is able to reproduce rapidly changing signals accurately.