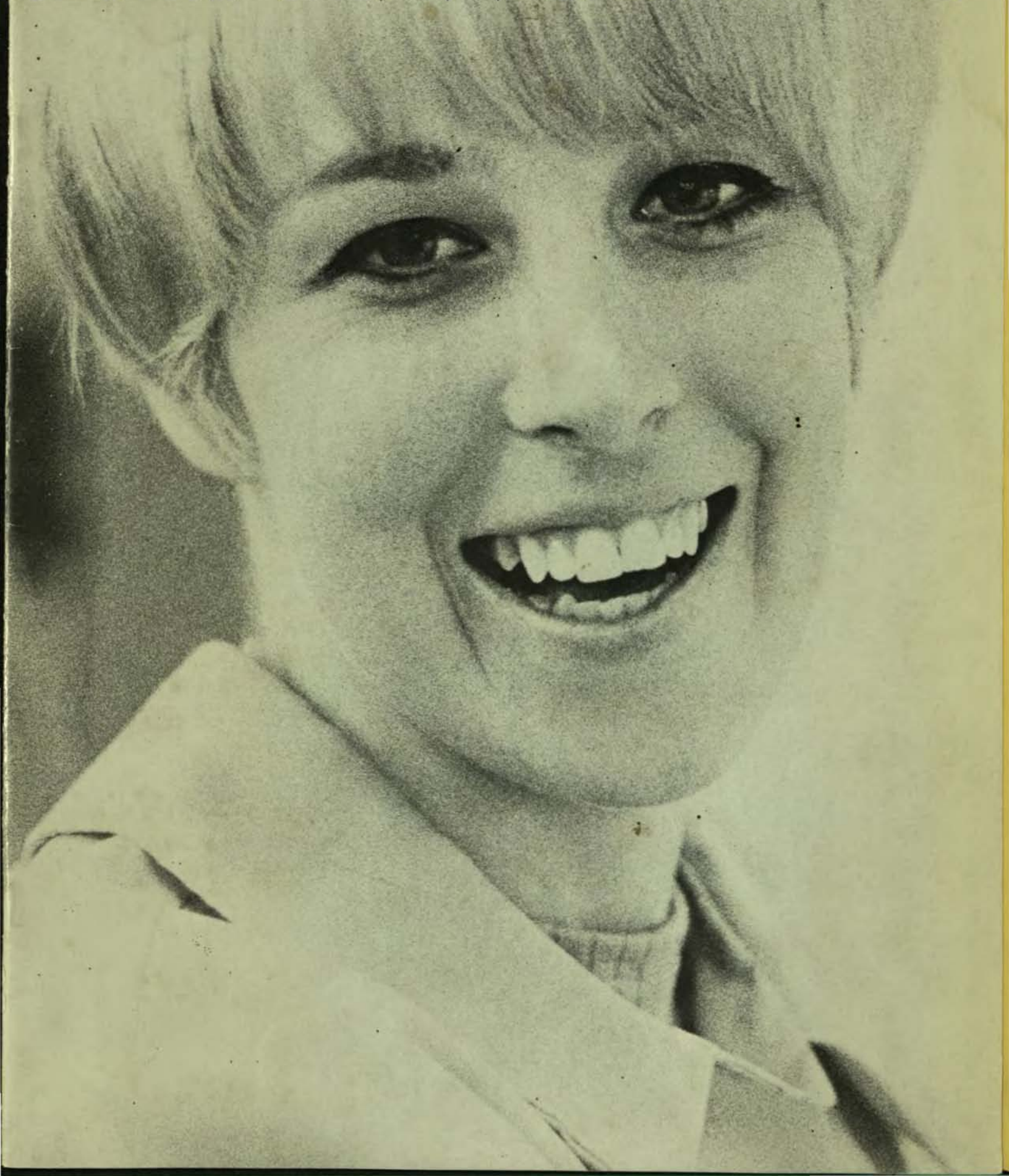


LEADWIRE

6



the Fairchild woman

Women at Fairchild number almost two-thirds of the total work force. Statistics say that half of all working women are married. The average woman works 28 years, and one of every five working women is the head of the household.

During the day the Fairchild woman is a receptionist, an artist, a key punch operator, an assembler, a typist, a tester, an accountant, a nurse, a technician, a librarian, a programmer, or a spec designer. She may work one of three shifts, and after work she may be wife, mother, teacher, chief cook and bottle washer, seamstress, chauffeur, nurse, student, or volunteer social worker.

The role the woman plays at Fairchild is irreplaceable; her activities outside of work invaluable. How she fits 36 hours into a 24-hour day is remarkable, and what follows are examples of the varied interests of just a few of Fairchild's Women.



Valerie McCown, Mountain View, lists square dancing and swimming as her two prime interests. She formerly served as an officer of a local square dancing club. Today she and her children travel to nearby recreation areas and dams where they can enjoy their favorite pastime, swimming.



Win Williams, Mountain View, raises, breeds, and shows Norwegian Elkhounds and Whippets. She shows at least one of her five dogs almost every weekend and plans to campaign her male Elkhound for top ten in the United States this year. In her not-too-spare time she's mother to three children and enjoys sewing, knitting, and working in mosaics.



Bessie Kennedy, Mountain View, collects rocks, driftwood and shells, and does quite a bit of camping on weekends. Camping is a family affair, and her husband and three sons also share her interest in collecting rocks.

the average woman works 28 years and one of every five working women is the head of the household



Frieda Bovenberg's main interest right now is raising her two children, although before coming to California she served as a member of the Dutch ambassadorial staff in England for 3 1/2 years. She later worked in New York with the Dutch ambassador to the U. N. Frieda is employed at Mountain View.



Hildegard Kruechen, Mountain View, used to ski a lot in her native Bavarian mountains, so it's not surprising that she and her husband spend nearly every winter weekend skiing at Lake Tahoe. Fellow employees who've seen her on the slopes vouch for her expertise.



Eleanor McMurray, Mountain View, enjoys restoring old furniture, collecting antiques, and gathering rocks, driftwood and shells for outdoor displays and rock gardens. Pride of her collection is a number of shells from Mount Shasta that date back to prehistoric times.



Elaine Hagan studied voice, drama, and dancing in New York and later landed several parts on the professional stage. Lately she's busy raising her family, but has done some work with the Comedia Theater in Palo Alto. She also used to teach ballet and hopes to return to her teaching and the theater after her family grows up. Elaine works at Mountain View.



Helen Brunelle, Mountain View, is right there in the stands cheering her sons on as they run through another season of Little League and Babe Ruth League baseball. In fact, she spends lots of her time keeping the two leagues operating successfully. She carts the teams to games and practices and works in the stands at nearly every game.



Earlene Cobb, Mountain View, picked up a camera several years ago and hasn't been able to put it down since. She prefers to take scenic shots, but has also put together collections of pictures on subjects such as the Seattle World's Fair. Another of her interests is silkscreening.



Sandy Johnson, Mountain View, is studying Graphic Arts at Foothill Junior College. In addition to working, studying, and attending classes in the evening, she plays both the piano and the guitar.



Sherry Lynn, Mountain View, spends quite a few of her weekends participating in gymkhana skill driving competitions. She's won a few trophies in the events which are sponsored by local sports car clubs. Sherry also enjoys water skiing and is planning to take flying lessons soon.



Liz Horner's main interest outside work and her family is camping. She camps first class in a camper fully outfitted for many weekends in the state's recreation areas. Another of her interests is dancing . . . all kinds. Liz works at Mountain View.



Bobbie Talley's hobby calls for imagination and patience—floral arranging. In fact, it could be a business with her except she gives the arrangements to friends who get married, are having a house warming, or are celebrating an anniversary. Bobbie works at Diode.



Yuki Baker just became a citizen of the United States. She's spent quite a few hours in classes and studying for her citizenship. Originally from Tokyo, Yuki works at Diode.



Andrea Campbell, Diode, came to the U.S. from Chile, and she brought with her the desire to further understanding between Latin America and the U.S. To this end she's actively involved in the people-to-people program for sister cities Sausalito, California, and Vina del Mar, Chile. She also submits articles about the places she has lived in the U.S. to various Latin American newspapers.

women number almost two-thirds of the total work force at Fairchild



Jeanette Schwinghammer, Diode, volunteered to teach a first aid course at the Red Cross to a group of people who had to have the course to get their high school diplomas. Additionally she's helping in the organization of a new program, Bay Area Big Sisters, which will serve young girls in the San Francisco Bay Area like the Big Brothers helps young boys.



Lynne Wright, R & D, attends Foothill Junior College, where she is working toward a degree in Music. She also studies modern dance and ballet and has performed in various school productions and the Comedia Theater of Palo Alto. She plays the piano, saxophone, clarinet, and alto clarinet . . . just to mention a few of her talents.



Irene Rollins, R & D, prefers gardening. She specializes in container gardening and raising potted plants, and has studied flower arranging to complement her interest in gardening. Irene also loves to sew, and she makes all of her clothes.



Mary Durst, R & D, designs her own clothes, designing and making her own clothes, designing and making her own patterns as well. She has been sewing for ten years, concentrating mostly on dresses. Her most recent efforts have been directed toward creating her own wedding trousseau.



Olga Bebinin, R & D, is just a whirlwind of energy. She teaches Shorthand I and II in the Los Altos Adult Education program four evenings a week, and she gives private Russian lessons in her home. She's served as a translator (at one time she spoke seven languages), has sung light opera in the theater, and is currently editing a book on beauty. She's also the mother of two grown children.



Terri Mead has appeared in many movies and television programs. You may have seen her in the "Perry Mason" series. She began her career modeling in England; and after a fling at show business, she handled the public relations for the Miss Universe contest in Hawaii. Today she's part of R & D's Purchasing Department, and she's very much interested in golf, skiing, and knitting.



Mary Siefert, Mountain View, learned sign language two years ago, and for the last year and a half she has taught church classes to deaf adults. She claims she's continually learning the language from them, but her work with them is opening many doors to them. She also helps organize socials and pot-lucks for the group.



Virginia Azevedo took up wild boar hunting this year. It's a sport she and her new husband share. Though she's just a beginner, she's hoping to bag her first boar soon. Virginia works at Mountain View.



Eva Oberg and her husband formed ARNEVA PRODUCTIONS, their own movie making corporation, and though their movies do not compete with multi-million dollar extravaganzas, they have won several trophies from camera clubs for their efforts. Eva writes many of the scripts and the whole family usually gets in on the acting. Eva works the swing shift at Mountain View.



Frances Taffola is the mother of nine children: Jackie, 18; Tom, 15; Carol Sue, 14; René, 13; Debbie, 12; Terri, 9; Jerry, 7; Joey, 5; and Elizabeth, 2 1/2. She also works the graveyard shift at Mountain View.



Sally Stang works the graveyard shift at Mountain View, she raises four young children, and she's considered an expert bridge player. A Life Master, she earned her 300 points to qualify her for one of the sport's highest honors a long time ago. She also helps run bridge tournaments, has scored tournaments, and has played against some of the best bridge players in the world. In her spare time she also plays the organ, and she and her husband enjoy almost every spectator sport in the Bay Area.



Claretta Austin used to sing with a church vocal quintet, but lately her family has demanded more time and the music has had to slide temporarily. Nevertheless, music is still one of her fondest interests. She also enjoys playing softball and motorcycle riding. Claretta works the graveyard shift at Mountain View.

the role the woman plays at Fairchild is irreplaceable



Ann Albert, Instrumentation's industrial nurse, is very much involved in politics. She's a member of the California Democratic State Central Committee. Her duties include pooling information for candidates. She's working on such subjects as welfare, conservation and mental health. Ann serves as Director of the National Association of Industrial Nurses, and she's helping plan their convention in San Francisco. She's also a member of the Western Association of Industrial Nurses and the local Industrial Nurses Association.



Nora Foster wears badge 952. That's not her Fairchild badge, but rather her Reserve Deputy Sheriff's badge, and is she ever proud of it! She works regularly every Sunday with inmates in Alameda County rehabilitation centers and has been used to assist in narcotics raids or transporting women inmates to court. Becoming a Reserve Deputy Sheriff was the realization of a life-long desire, and Nora gives much more than the time demanded of her in working with the inmates. A grandmother, she works the swing shift at Mountain View.



Diana Ross has a very unique hobby, exploring ghost towns and forgotten settlements. A native of California, she's spent about eight years exploring and collecting unusual relics like old ledgers and picks and shovels from the Gold Country. Diana works the graveyard shift at Mountain View.



Shirley Saxton, Instrumentation, fell in love with scuba diving, and she has traveled to Acapulco, the Mediterranean Coast, and nearby Monterey to explore the oceans' floors. She also is active in a weekly ballroom dancing group and will be attending a national square dancing convention in Southern California soon.



Mitzy Hoshino calls herself a "rock hound," and that means she's an avid collector of rocks and minerals. She also converts them into highly polished stones and jewelry. She and her husband are members of the San Mateo Gem and Mineral Club, and in the last few years their interest has grown to the extent that they are learning silvercraft in order to make original pins and rings. Mitzy works at Mountain View. Many of the girls wear her handiwork.



Maria Sequeira, Instrumentation, loves anything connected with the sea which is reminiscent of her native Azores Islands. She collects driftwood, stains it and turns it into elegant works of art. She also raises tropical fish in a 55-gallon tank and is interested in skin diving. Maria is studying shorthand and typing at night eventually to become a secretary.



Maria Humphrey, from Instrumentation's cabling area, can claim a 181 high game —bowling, that is. She's served as secretary/treasurer of Instrumentation's bowling league for three years. Her entire family bowls (her husband, and their four children and their husbands and wives), and all but one is currently bowling in the league. Maria also served as treasurer of Instrumentation's Rec Council.



Bev King sails her double ender sloop every weekend from Santa Cruz with her husband and three children. "The Budget Breaker" journeyed down the coast to Big Sur over June 4th. In her other spare moments, Bev water skis, bowls, and teaches Sunday school. She's also active supervising a number of youth groups.

a man and

If you were to ask Herb Lewis about Fairchild's fair sex, he'd have nothing but good things to say. Herb's manager of Spec Control (that's short for Specifications Control), and nearly 50 girls work for him expediting the nearly 1400 documents that must be moved in and out of Spec Control each month.

The backbone of Spec Control is that category of women known as Spec Designers. These girls translate customer documents, or orders, into internal specs (a standard format the factory can use).

The average Spec Designer has been with Fairchild for about seven years, and she's generally held a variety of jobs includ-



his women

ing assembler, inspector, department technician, and training technician. Each Spec Designer has literally come up through the ranks to her present position, and each brings with her invaluable experience she will use every day as a Spec Designer.

Herb explains Spec Control this way, "Salesmen sell to our customers, but these girls must evaluate the order to see if we can make it and at what price; then it must be translated into Fairchild terminology. For this I rely on the knowledge of these girls." And, it sounds like all of Fairchild Semiconductor does, too.



It's A Woman's World



Margaret Coulbourn, electronics buyer, checks circuit board with Jerry Tennant.



Myra Landolfi examines a circuit board with Rex Rice, Digital Systems Research Manager.

That's what they say at R & D—at least as far as purchasing is concerned. And, the Purchasing Department was an all-woman department until Dick Pattison joined the group a year ago.

Heading up the operation is Myra Landolfi, purchasing agent and the only female officer in the Purchasing Agents Association of Northern California. With her are Jo Ann Kolbo (Chemical and Special Materials Buyer), Olive Ingargiola (Laboratory and Hardware Buyer), Margaret Coulbourn (Electronic Buyer), and Dick who handles subcontract purchases. Terri Mead, Genevieve Sallander, and Lola Cuevas round out the department.

And what a department this is. It's considered one of the

most advanced in the nation for its innovations in procurement techniques and for the variety of services it offers. The girls, and Dick, are experienced in buying anything from paper clips to furnaces. Most of their time is spent trying to locate things not on the market, things that are technically unobtainable. Additionally, they pioneered the use of the IBM 1001 Data Phone, which literally broadens the scope of their already staggering capabilities.

Newcomers to R & D seem quite startled when they first come in contact with Myra's predominantly feminine buying team, but any doubts soon disappear when they see how hard the purchasing staff works to track down everything needed by R & D.



Jo Ann Kolbo checks platinum wire specs with the help of Dick Parker.



Lola Cuevas, Olive Ingargiola, and Genevieve Sallander are three good reasons Dick Pattison doesn't mind being the only man in Purchasing.

Try to keep up with these Girls!



Several months ago Les Haynes, swing shift supervisor of Fab 3 Masking, bet his girls they couldn't expose over 5000 wafers in one month. When they did, he paid up. He was drenched under the shower. Come March and they went one better. They exposed over 8000.

Here are the girls, all 33 of them. And, Les is betting *with* them from now on.

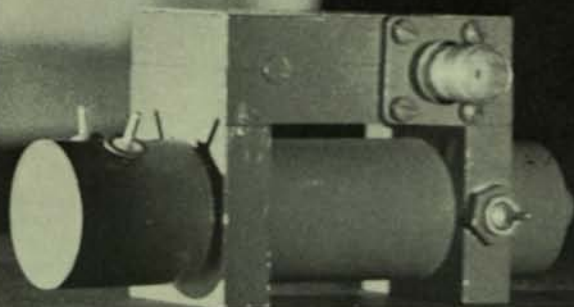




Microwave to the rescue

On May 2nd at 10:00 a.m., Donald Kojane (Manager of Microwave Marketing) received an urgent phone call from Roger Wilson of Teleprompter Transmission, Eugene, Oregon. Mr. Wilson desperately needed an MS1130AF Fairchild Microwave Solid State Source because a receiver in the microwave link carrying a network channel in the CATV System was off the air. Viewers in the outlying communities of Eugene were frantic because their favorite programs were blacked out on Channel 6 (CBS).

Fairchild Microwave Products immediately went into action. Don notified Production to test and check an MS1130AF tuned to 6127 MHz, shipping papers were typed, the unit was packed and then hand-carried to the San Francisco Airport. The Microwave source was on its way to Eugene by 12:45 that afternoon. The Teleprompter people picked up the source at 4:00 p.m., and it was taken up the mountain to the microwave relay station and installed. Programs were back on the air by 5:45 p.m. that very day. Now that's service!





*or Girl Behind
The Scenes*

or Girl Behind
The Scenes

Back in the late 1800's it was considered outrageous if any woman had a desire to leave her home and enter the business world. The offices at that time were kept dark and the copy work was all done with a quill pen by the light of candle. The only sound to be heard was the scratching of quill pens as the men copied each necessary word. Then, in 1874, the first practical commercial typewriting machine was manufactured and placed on the market. This started a revolution in business communications and the general appearance of business offices. The woman began to take her place in the business world, and the clattering of typewriters became an old familiar sound.

Today's secretary is a respected, often highly educated, well paid member of the business world. She's an office assistant to a busy person; and by handling correspondence, office routine, and details, she frees him for the specialized work only he can do. Among her secretarial duties, she also finds time to think up better ways of doing her job, to make quick decisions when her boss is out of the office, or to brew a good cup of coffee to get her boss off to a good start for the day.

Secretaries also have definite opinions about their profession. In talking with several Fairchild secretaries, here's what they have to say.

"The most important quality in a secretary, besides her skills, is her natural ability to get along with people."

"An occasional 'this looks good' or 'you handled that quite well' is one of the most rewarding things about my job."

"A woman in the secretarial field today is happiest when she has some responsibility and gets a chance to use her initiative."

"We secretaries could be a big help to people who call, if they'd just let us know what kind of information they need. Often times they should be calling someone else, and we could channel the call to the proper individual."

"A secretary's contribution, my contribution, depends not only on my abilities, but on what my boss will let me do, and in this case he enables me to make what I consider worthwhile contributions. Too often, though, the girls' bosses won't delegate very much responsibility."

"I like to have a job I can tackle."

"A secretary needs to feel needed and needs to please her boss."

And while she plays a role behind the scenes, the secretary is very much a part of the Fairchild scene.

semi·con·duc·tor

When people ask you where you work and you say Fairchild Semiconductor, do they sort of look at you shyly and say, "Oh yes, the electronics industry, isn't it?" They generally understand the Fairchild part, but aren't quite sure about that word, "semiconductor." And then you usually make a half-hearted attempt to explain what Fairchild Semiconductor does by saying, "Well, we make those things called transistors and similar devices that switch things on and off, and oh yes, these things are used in computers and TV's and rockets." Well... here at last is a complete way to explain that word, "semiconductor," and those things called "semiconductors." The following is from an article by Eunice Reithard, Technical Writer, Marketing Services, Mountain View.

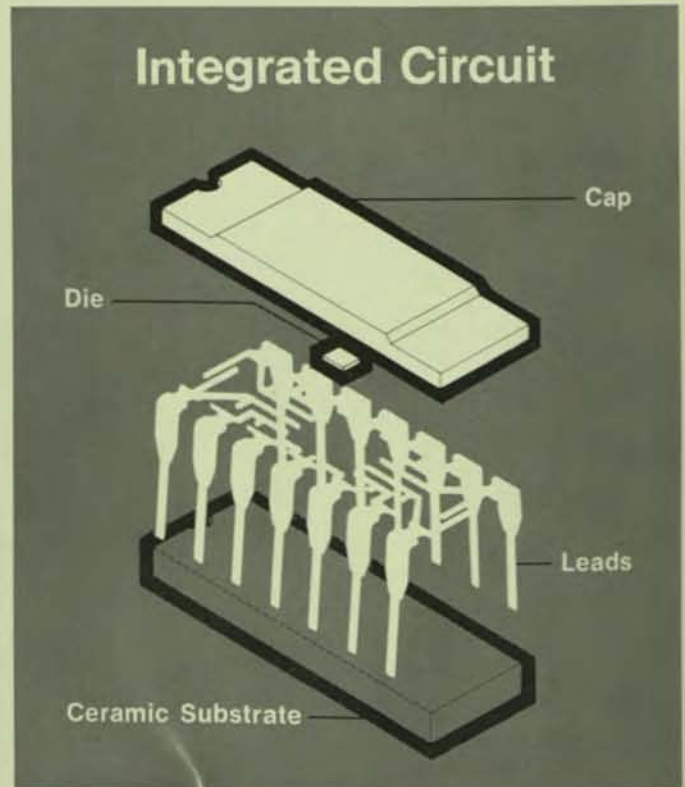
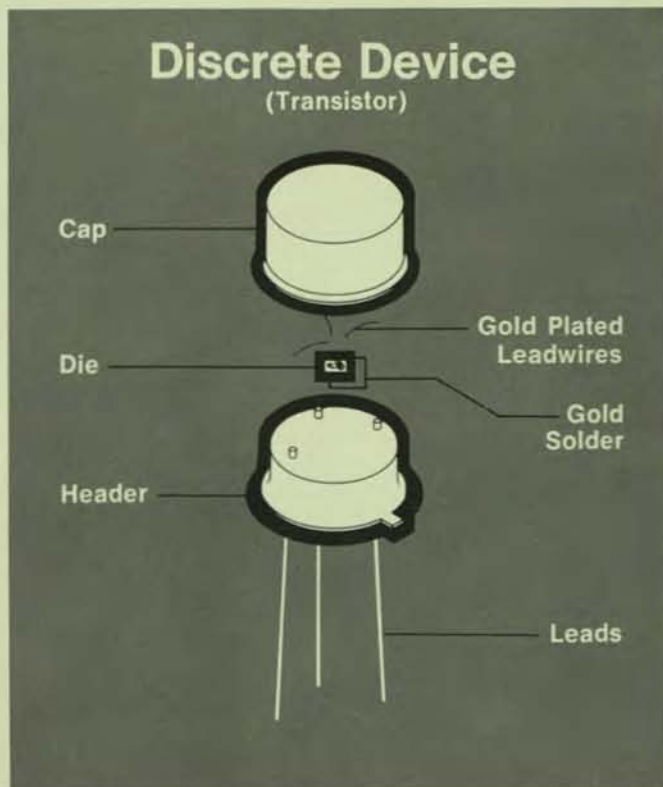
At Fairchild, semiconductors are made of a material called silicon which is prepared into thin chips or dice about one-sixteenth of an inch square. Certain impurities are added to the silicon by a process called Planar* diffusion, so that the semiconductor acts to control the flow of electrical power. It is these small amounts of impurities that cause the silicon die to resist the flow of current. And, it's this that makes it act as a semiconductor, rather than a total conductor. Additionally, because the silicon die is a crystal substance, a semiconductor is called a "solid-state" device.

Fairchild makes two basic types of semiconductors — those called discrete devices and the miniature types called integrated circuits. The accompanying drawings show one example of a discrete device which is called a transistor and a second example, the integrated circuit, which is often called a microcircuit because of its small size.

Discrete devices include *diodes* (which look like the transistor pictured but can be distinguished by having only two leads, or connecting wires, instead of the three transistors have). In performance, a diode controls electrical current in one direction only. *Transistor* circuits can be used in several ways, such as for switching signals or amplifying sound. An *integrated circuit* combines many components into a single chip to give one complete electrical performance, much like musicians in a band playing a single tune.

Since the semiconductor die is so small that a speck of dust could cover it, it is always put into a protective package. These packages come in different sizes, shapes, and materials. They are used in a wide range of products such as television sets, computers, and space vehicles... and that's right where we came in; so now you can take it from there.

*Planar is a patented Fairchild process



expo 67

Fairchild
style

Latest solid state technology, guided tours, displays, refreshments, clowns, balloons, live music, doorprizes, and a great way to spend a Sunday afternoon. The Sunday is June 25th, and the occasion is Mountain View's Annual Employee Open House from 11:00 a.m. until 4:00 p.m. It's your chance to bring your family to the Mountain View Plant; show them where you work, what you do; and let them look around

Fairchild Semiconductor.

More than 3000 people are expected to attend this year's Open House. Come early, come in the middle of the afternoon, but come.

No tickets are necessary; just be sure to bring your badge. It's your ticket of admission.



MISSION ACCOMPLISHED

After a three-hour delay, Flight 846 from Tokyo landed at San Francisco's International Airport. On board was a young lady, Mija Hwang, accompanied by International's Dick McSheffrey. And this moment was the climax of a year of anxious waiting for the Richard Newton family of Los Gatos.

The 13-month old girl they had adopted was finally theirs, she was finally in the U.S., and the photograph they had treasured for nearly a year was now a live, healthy little girl.

The Newtons (Judy, Dick, and their two children, Craig, 8, and Patty, 6) had completed adoption arrangements, but for almost a year the Korean Orphanage could find no one to accompany Mija to the U.S. This was the law, and every time arrangements had been made, something happened to delay her departure.

Finally in desperation, Judy tried to find someone returning from the Orient who hopefully would bring Mija to her new home. She met with no luck until just about three months ago. A mutual friend of Judy's and Mary Lou Weis (Dr. Noyce's secretary) thought perhaps Fairchild Semiconductor

held the solution to the Newtons' problem. Fairchild had just opened a new plant in Seoul, and there had to be a few people making the trip between Seoul and Mountain View.

She thought right. Dick McSheffrey had been assisting in setting up the plant there. His job was nearly completed, and he was due to return to Mountain View sometime in March or April. Mary Lou cabled Dick and he willingly volunteered for the assignment.

Within weeks the arrangements were made, but Judy Newton was used to this. She wouldn't believe Mija was in the U.S. until she saw her and held her. And at the airport that Saturday, May 6th, she would have her wish, and Mija would really become a member of the Newton family.

Today, Mija is doing just fine. Somewhat underweight when she arrived, she gained a pound and a half in two days' time. As for Dick McSheffrey, he's off on a new assignment for Fairchild, though bringing Mija to her new home was one of his most difficult assignments ever. You see, Dick's a bachelor.





In General

FCI Research Fellows Visit R & D

Twelve men, all working towards advanced degrees in solid state electronics and all recipients of fellowships awarded by Fairchild Camera and Instrument, met with members of the R & D staff and toured the R & D facility recently. Exchanging ideas with the young men were Tom Bay, General Manager of Fairchild Semiconductor; Vic Grinich, General Manager of Fairchild Instrumentation; Gordon Moore, Director of Research and Development; Robert Noyce, Group Vice President FCI; and Samuel Levine, Technical Assistant to the Office of Chairman FCI. Those also participating in the two-day session from R & D included Charlie Bittmann, Ilan Blech, Rudy Dyck, Andy Grove, Jack Kabell, James Koford, Donald Palmer, Rex Rice, Wendell Sander, Robert Seeds, and Harry Sello.



New Look at Instrumentation

A reorganization of the Instrumentation Division along product lines went into effect May 15th. Heading up the Systems Group is Charlie Askanas and Chris Coburn was appointed Instruments Group Manager. Both groups will have the responsibility for marketing, engineering, manufacturing and service functions related to specific product lines. The formation of the product groups allows people throughout the organization to focus attention on specific areas and to respond to customer needs more readily. Other organizational changes include Sy Fader; Industrial Relations Manager for Mountain View, Skip Mattson; and General Manager of Electrometrics subsidiary, Bill Lambdin.

Soccer, Anyone?

The sport is soccer and it's sweeping the States by storm, but well ahead of the trend was Mountain View's own soccer team. The Fairchild United Soccer Club just completed its first season with the Peninsula Soccer Football League which includes 30 teams. Next year the team advances to a higher division due to its successful first season. It took all season for the team to win its first game, but it normally takes much longer than that to get a winning combination together in this rough and tumble sport. This photo was taken during the last match of the season, against Fortuna '66. Fairchild conceded an early goal but fought back in characteristic manner to forge on to a 4-2 victory. Two of the goals came from center-forward Lou Kauffeld's sterling play. Anyone interested in the sport is urged to contact club secretary Jan Visser, Equipment Design (MV). Regular training sessions will be held throughout the summer at 6:00 p.m. each Wednesday at Mitchell Park, East Middlefield Road, Palo Alto.



Research & Development

Materials and Processes challenged Charlie Bittmann's Physics Department to a softball contest after work Wednesday, May 24th. Harry Sello spelled out the rules: a minimum of one inning and only the secretaries of each department were to pitch. After the game there was a get together at Shakey's and lots of sore muscles. The winners? Materials and Processes by a score of 23-11. Winning pitchers were Beverly Arrighi and Liz Frisz. Taking the loss was Adrienne Juliano.

Chrome masking threw a wedding shower for Mary Ann Bridgeman. The future Mrs. Dickie Durst received many gifts for the kitchen which she'll be putting to good use soon.

Jean Parry was also surprised by the housewarming this same group gave her new apartment. The pot-luck affair drew a large crowd including Fran and Lester McDonough, Mary and Vern Forrest, Ruth and Art Engevall, Winn and Joe Flood, Dolores and Frank King, Eleanor Gruenberg, Adriene Shelton, Ike Neal, Bonita Barrientos, Kris Wallerstedt, Mary Bridgeman and Dickie Durst.

Winners of the R & D Lunchtime Bridge Tournament were George Powers and Ron Whittier (North-South team) and Len Bernstein and John Rushton (East-West team). That's Ron checking to see what George is going to play, and Len kicking John under the table to check to see what George is going to play. So that's how they win at bridge!



Mountain View

Summer's here, and one good sign of it is all the people enjoying lunch on the patio. First outdoors pot-luck of the season was held by Packaging.



Recreation Council members elected Bryce Herbst, President of the Council. Bryce's replacing Dave Heck who is on his way to Hong Kong as Production Control Manager. Ed Tappen is new VP, replacing Bryce, and Al Sydnor was elected Alternate Officer. Serving as Secretary is Reba Clinkenbeard and Mike Walton's the new Treasurer.

Ed Tappen is starting a Fairchild Camper Club with the backing of the Rec Council. Anyone interested in joining should call Ed. The Summer Golf League's in full swing with 80 players participating, and more than 250 signed up for this year's intramural softball league. Should be a busy summer.

Final team standings for Fairchild's Intramural Basketball League showed the LIC team on top with a 6-1 record. Second place went to the Materials team (5-2). LIC team members were Steve Rowles, George Wushnig, Bob Bickers, Larry Stenger, Jack Gifford, Art Stabenow, Ken O'Connor, Ed Bunch, Vince Fulginiti, Joe Malone, John Walsh, and Dick Hoff. Leading scorers in the league were Dick Clements (CIC) with 105 points and George Wushnig (LIC) who scored 102.

Fairchild Control's team took first place in the 835 Scratch League this year. The team also won the high team series honor and Bill Chevalier high game (267) and high series (686) honors. Team members were Bill Chevalier, Perry Kerby, Mike Warren, and standing Ty Rockhold, team sponsor Don Lynam, and Jim Vinzant.



Winter Golf League winners picked up their trophies from chairman Don Lynam. Standing behind Don are Ed Beers, Art Kitowski, Pete Solly, Lee Henderson, and Hank Woo.



Inspired by last year's success, Silicon Materials Picnic Committee is organizing an even bigger and better '67 picnic. This year it will be held July 22nd at Uvas Meadows. Jerry Haugen reports that Yvonne Huhalla, Carol Mortensen, Mike Walton, Vera Higin's volunteered to plan the gala affair.

In addition to the picnic, Materials employees are planning an excursion to Candlestick park July 30th to see the Giants take on the Pittsburgh Pirates.

Picnics coming up soon:

- July 15th Applications (Blackberry Farm)
- July 15th Controls (Hidden Valley)
- July 16th LIC (Adobe Creek Lodge)
- July 16th PIC (Frontier Village)
- July 22nd QA, QC Production Control (Almaden Park)
- July 22nd Materials (Uvas Meadows)
- July 23rd PNP (Frontier Village)
- July 23rd Planning and Distribution (Blackberry Farm)
- August 6th Product Maintenance, Plant Engineering, Manufacturing Engineering, Glass Shop, Chem Mix, Electronics Services (Uvas Meadows)
- August 12th Packaging (Blackberry Farm)
- August 13th Military Products (Frontier Village)

Get prepared for the Annual Golf Tournament. It's a one-day affair, this year to be held August 20th at Spring Valley. Watch for announcements and start practicing now.

To improve Mountain View's safety record and encourage better housekeeping, Charlie Victor has established three Safety Committees. Each group will meet monthly. The Management Committee will set policy and plan for safety education. The Supervisors Committee will act on recommendations they receive from members of the Employee Committee. By reviewing accidents and making periodical inspection tours, the committees hope to cut accidents to a minimum, but that depends on each one of you.

Shiprock



April 6th was a great day at Shiprock; so good in fact that with eight final seal operators, the Shiprock Plant sealed 120,794 devices on one shift. From all available information this is a divisional record. Shiprock's individual record was broken three times that day by Betty Funston, Elouise James, and Ella Cowboy; each sealed over 18,500 devices. This record has since been broken by Elouise who sealed 20,844 devices and Betty who sealed 20,700 devices May 4th. What can a foreman say after a performance like that? Plenty, and Buddy Babb credits the performance to a great team effort—the line mechanic, the electrode tuner and the fine girls on both swing and day shifts. (All of them are included in the accompanying picture.) This story's still not over yet. The topper is that all the seals for that day cleared Q.C. with zero defects for overall lots.

Diode

Working at Diode is a family affair, or so it would seem at a fast glance. Just look at these family members working at San Rafael:

Bobbie Talley, Dorothy Henderson, Rosie Proctor (Sisters)
Bobbie Talley, Mittie Swanson (Sisters-in-law)
Jessie Johnson, Bobbie Jones, Margaret Jones (Sisters)
May Robinson, Clydia Warner (Sisters)
Wilma Wells, Patsy Washington (Sisters)
Emma Young, Eva Young, Dorothy Young (Sisters)
Josie Ware, Victoria Bircher (Sisters)
JoAnn Nelson, Gloria Harris (Sisters)
Annie Tilman, Geraldine Paden (Sisters)
Jellean Thomas, Isadoria Thomas (Sisters)
Dora Singleton, Lois Brown (Sisters)
Dora Singleton, Lil Singleton, Murdell Singleton,
Willa Singleton (Sisters-in-law)

Joyce Hammel, Donna Erickson, Nancy Grafton (Sisters)
Gwen Daniels, Sharon Grundy (Sisters)
Clare Reynolds, mother of Bob Reynolds
Barbara Gaines, mother of Linda Gaines
Kenneth Jastrow, father of Daniele Jastrow
LaVerne Bishop, Hazel Watson (Cousins)
John Westhoff and Emily Westhoff (Husband and Wife)
Al Culuris and Vickie Culuris (Husband and Wife)
George Parrish and Alice Parrish (Husband and Wife)
Randy Keading and Sandy Keading (Husband and Wife)

Jeanette Schwinghammer announces the Fairchild Health Education luncheons are getting great employee support. May 9th's was on Maternity and Child Health Care, May 23rd Nutrition, June 6th Mental Health, June 20th Home Safety, and July 11th Alcohol and Drug Abuse.

Members of the Sonoma Kiwanis Club learned what the Diode plant is all about from Stan Manning and Frank Ellis, guest speakers at a recent Kiwanis dinner meeting.

New Rec Council members are Hal Knopp, Emma Young, and Jerry Calloway, replacing George Miller, Bobbie Talley, and Jerri Thomas who have completed a two-year term of office. Staying on the council are Maxine Hamilton, Chuck Self, and Jim Williams.



Rec Council Events coming up:

- June-October Every Monday night (and other selected evenings) Diode's softball team competes with Marin County teams
- July Trip to Candlestick Park to see the San Francisco Giants in action
- September Annual Picnic at Marin Town and Country Club, September 30th
- October Trip to Kezar Stadium to see the '49ers play
- November Trip to Oakland Coliseum to watch the California Seals plays the Chicago Black Hawks in National Hockey League play

It was a great day for Emily and John Westhoff. They just became parents, adopting this cute young lady. Emily and John, natives of Germany, now U.S. citizens, have both worked at Fairchild for more than five years.



Diode employees sure do think a lot of Delores Latini. Delores is counter girl in the cafeteria for the Coca Cola Company. And, she's become a special person at Diode because of her happy disposition. Says one employee: "It's great to start the day with a cheerful 'good morning' and to have lunch served with a smile and kidding comment." Before coming to Diode 2 1/2 years ago Delores was a comptometer operator and typist for five years. She saw an ad in the paper for the job at Diode, liked the hours and the proximity to home (Marinwood), and thought it would enable her to spend more time with her three sons, Al, 21; Bob, 20; and Steve, 15. She's glad she got the job, and so are all the Diode employees.

Diode finished 3rd in the Marin County Bowling League. Final individual averages were: Hal Knopp (166), Jim Smith (158), Bill Morton (158), Tony Manino (152), and Jack Harris (142).

Juggling trophies at San Rafael's bowling banquet were first place winners Rich McIntyre and Evelyn Koeble.



BVL means Bowlers Victory League. This year Carol Bino (Masking) came in second in her division in the State. She rolled games of 223, 185, 193, and 179 in the A Division.

Karen Calloway, Carol Bino, and Carol Caldwell went with the Petaluma Bowling Association to the State Tournament in San Fernando Valley. Winners will be notified in August. So far, Karen's collected a 200 pin for bowling a 202.

Manager Hal Knopp's prediction of an improved softball season has come to pass. New team members, shortstop Jim Smith, center-fielder Frank Barton, right-fielder Herm Martin, second baseman Dave Zahniser and pitcher Wayne Snodgrass have given a boost to veterans left-fielder Bruce Mack, short center-fielder Al Frugoletti, third-baseman Hal Knopp, first-baseman Al Danks, and catcher Harry Spence. In League play the team is undefeated with a 3-win, 1-tie, record.

Instrumentation

"June Is Popping Out All Over" was the title of Instrumentation's fashion show held June 8th at 7:30 p.m. in the cafeteria. Fashions by Evelyn Rogers' *Maison de Couture* of Cupertino, models from Instrumentation's finest, an original idea from Instrumentation's energetic Rec Council.

Instrumentation's new summer bowling league is off to a good start. Twenty teams are participating every Tuesday night. Bob Ahrendt is president of the league, and Michelle Jorgenson is doing all the work as the league's secretary.

"Fran Humphrey is enrolled as a life member of the Wise Owl Club and is acclaimed for his judgment and foresight in the conscientious use of eye protection which saved his vision in a work accident on August 17, 1966." That's how the certificate read when Mel Schmucker presented Fran his award from the National Society for the Prevention of Blindness. The accident occurred when a whole box die flew out of Fran's punch press shattering his safety glasses and throwing tiny pieces of metal into his face. It was Instrumentation's first Wise Owl Award, and you can bet Fran was glad he had those safety glasses on.



June/5yr. Service Awards

This is the biggest list ever, and for the first time several South Portland employees are included.

Mildred Pankratz	DIODE	Everett Highlund	MV
Catherine Christensen	R&D	Bobbie Jones	DIODE
David Symons	S. PORT	Zeta Moen	MV
Carroll Ford	MV	Osamu Uyeda	R&D
Consuelo Vasquez	MV	Jack Jones	R&D
Betty Luck	DIODE	Mitzi Isakari	MV
James Bell	DIODE	Jessie Lee	DIODE
Waltraud Noriel	DIODE	Theresa Torres	MV
Jack Ramon	INSTR	Esther Iverson	MV
Ardith Webber	MV	Julia Gonzalez	MV
James Mays	MV	Ineko Johannes	MV
Milton Gear	INSTR	Anna Ring	DIODE
Rosaline Christiansen	MV	James Marley	MV
Ofelia Anthon	MV	Joan Connally	MV
Ethel Tolefree	DIODE	Barbara Crump	DIODE
Georgia Ferguson	DIODE	Louise Arias	MV
Richard Banter	MV	Doris Davis	MV
Elvira Montes	MV	Janet Hill	MV
Margaret Coulbourn	R&D	Mary Cabello	MV
James Chunn	INSTR	Irene Mello	MV
Thomas Henderson	MV	James Carr	MV
Robert Seeds	R&D	Delois Wickliff	DIODE
Thomas Wong	MV	Bruce Bartlett	INSTR
Howard Anderson	MV	John Winding	R&D
Marcel Morrisette	S. PORT	Byron Brier	R&D
Geraldine Rice	MV	James Boyd	MV
Gordon Kiefer	DIODE	Virginia Pace	MV
June Johnson	DIODE	Max Chancellor	MV
Alan Ankerbrand	MV	Nellie Hodge	MV
Richard Steinheimer	MV	Floy Hummel	MV
Raymond Malatesta	S. PORT	Lucille Arias	MV
Hermodea Huerta	MV	Doris Youmans	MV
Kenneth Rinaldo	DIODE	Eugene Blome	R&D
Ruthie Patterson	DIODE	Martin Tiernan	S. PORT
Antoinette Warden	MV	Charles Griffin	DIODE
Patricia Maggiora	DIODE	Evelyn Lien	R&D
Mary Stewardson	DIODE	Viola Trujillo	MV
		Mary Pauwels	MV

Five Year Celebrations

Elizabeth Bergau QA (MV), was feted at a dinner with her fellow employees. Stan Brehm presented her the five-year award.



May Green received her five-year pin from General Foreman Andy Swank as her foreman, Dale Young, looks on. The corsage was from the people in QA, Integrated Circuits (MV) as was the cake all 25 of them divided.



Bonnie Pascale received her five-year necklace from Bob Swor and Dan Martin. She received several gifts from the girls in Epi (Grave shift) and they all enjoyed a pot-luck at 3:00 a.m.



Flora Vowiell celebrated her five years at Fairchild Instrumentation amid cards, flowers, and an elaborate party given her by the Chassis Wiring group.

Even the fellows get to celebrate their five years with Fairchild. Nearly 40 people in Manufacturing Engineering (MV) joined Art Dorf for dinner at Chez Yvonne. His was on them.

Moving Up

Phil Perry was named Manufacturing Manager of the South Portland plant. He will be responsible for all production, product engineering, and testing activities. Phil joined Fairchild in 1959 and most recently was Plant Manager at Shiprock.

Marcia Root was named N. C. Programmer in Electronic Services.

Ed Cop was named Assistant Engineer in Electronic Services.

Dan Smith moved up to Assistant Engineer in Electronic Services.

Bill Cooke was promoted to Assistant Engineer, Electronic Services.

Ivan Pfennig is now an Engineer B in Electronic Services. He was previously an Assistant Engineer.

Rudy Bartneck was named an Engineer B in Electronic Services. He was formerly an Assistant Engineer.

Bill Dunaway moved up from Assistant Engineer to Engineer B in Electronic Services.

Ronald Frank was promoted to Assistant Electronic Technician from Electronic Trainee at Diode.

Gary Young was named Electronic Technician. He was previously an Assistant Electronic Technician at Diode.

Robert Olsen was promoted to Engineer from Assistant Engineer at Diode.

Pete Chiappetta moved up to Foreman from Assistant Foreman at Diode.

George Grier, Diode, was appointed Cost Accounting Manager. He was previously a Senior Accountant.

Heinz Eggers advanced to Designer from Senior Draftsman at Diode.

Ron Timm moved up from Lab Tech to Assistant Engineer at Diode.

William Rowe was named Facilities Manager for Instrumentation. Before transferring to Mountain View, he was Plant Engineer Manager for the division's plant in Clifton, N. J.

Al Wight moved up from Electronic Technician to Senior Electronic Technician at Diode.

Donald Montgomery advanced to Senior Tech from Electronic Technician at Diode.

Donald Hempel was named Electronic Technician at Diode. He was formerly an Assistant Electronic Technician.

Dave Anderson was promoted to Manager of Engineering Services, Instrumentation Systems at Instrumentation. He was formerly Supervisor of the Drafting Department for Development Engineering.

Leo Steinhelner was named new Supervisor of the Drafting Department for Instruments at Instrumentation. He was previously Senior Draftsman.

DeWayne Christofferson was appointed Supervisor, Drafting Department, Systems at Instrumentation. Before his promotion he was a Senior Draftsman.

Jack Ordway, as a result of his outstanding sales performance in the Minneapolis Sales Office was named Manager of Sales, IBM Program. He will have supervisory, training, and administrative responsibility of the Poughkeepsie Sales Office.

Felix Sandry was named Technical Supervisor in Electronic Services.

Karl Tampier of Electronic Services was promoted to Technical Supervisor.

Lee Wetmore was named Account Executive for the RCA Military Complex in the Philadelphia area.

Lou Lyons was appointed Autonetics Programs Manager. He was formerly in Field Sales.

Jim Meyer took over the new position of Marketing Analyst, reporting to the Integrated Circuits Marketing Manager, Ben Anixter. He will coordinate, facilitate, and implement forecasting and statistical systems to serve the Product Marketing Managers as well.

Joe Rizzi was named CIC Product Manager. He was formerly a Supervising Engineer.

Jerry Secrest was appointed a Supervising Engineer for CIC. He was formerly an Engineer.

John Carey was promoted to Manager of Digital Integrated Circuits. He was Product Manager before his advancement.

Dave Bjornson advanced from Engineer to Supervising Engineer in CIC.

David Rosprim was named Supervising Engineer. He was previously Product Engineer.

John Ronald was appointed Production Manager of Semikor, Ltd., Seoul, Korea. He was previously General Foreman NPN.

Lester Faerber, PIC, moved up to become General Foreman. He was previously a foreman in the Classification area and most recently on special project assignments in the Fab area.

Gene Flath is now PIC Product Manager. His last position was that of Supervising Engineer.

George Staudacher was promoted to Product Engineer from Foreman. He previously worked in Applications.

Robert Beaudoin was promoted from Production Planner to Sales Liaison Engineer at Diode.

Harry Roberts advanced from Production Scheduler to Production Planner at Diode.

Kenneth McCammon is now Sales Liaison Engineer at Diode. He was formerly a Production Planner.

Al Frugletti was named Sales Liaison Engineer for Diode.

New Faces

Chuck O'Brien is a new Marketing Services Account Manager. He is responsible for the Consumer and Computer markets as well as Recruitment. Chuck comes to Fairchild Semiconductor from Mason Advertising Agency in Los Angeles.

Dick Hubert is a new Account Manager in Marketing Services. He is responsible for Distributor programs and Microwave Products. Dick previously worked for Kaiser Steel in Oakland.

Jan Black is the Product Marketing Manager for Power Transistors/Thyristors. In addition to having published several papers on semiconductor components and applications, Jan's background in semiconductors dates back to the early 1950's.

W. Stephen Platt heads the newly created Systems Department of Instrumentation. He will assist department managers in designing and implementing computer systems and procedures. Prior to joining Fairchild, he was manager of management information systems with TRW Semiconductor.

Robert Coultas was appointed Product Marketing Manager for Instrumentation's line of oscilloscopes and accessories. He will direct oscilloscope product marketing efforts from the division's Clifton, N. J. plant. He worked previously for Tektronix, Incorporated as a field engineer.

Ronald Ostertag joined Diode as a supervisor in QA. He just recently completed his BIE at the Georgia Institute of Technology.

Charles Smith was named Material Supervisor at Mountain View. He was formerly with Hewlett Packard as a Material Manager.

Richard Trevisan is the new purchasing agent for Instrumentation's Mountain View facility. He will perform general purchasing activities and also be responsible for engineering and production purchasing. A member of the National Association of Purchasing Agents and National Contract Management Association, he formerly was subcontracts administrator for Sylvania Electrical Products.

Gerry Purse joined PIC as Process Engineer. He previously worked at Ferranti, Ltd., in England.

Tom Rowe is a new Product Engineer in PIC. He just recently graduated from MIT.

Jim Donald joined PIC as a Process Engineer. He formerly worked for Philco-Ford SR5D in Palo Alto.

Tom Holman joined South Portland as an Industrial Engineer. He was formerly an Account Executive with Top Value Enterprises, Inc.

Walter Long was named Cost Accountant at Diode. Before joining Fairchild, he was a regional cost accountant with The Glidden Company.

Bob Casel is Sales Liaison Engineer at Diode. Before joining the Customer Services group, he was Territory Manager for Baxter Labs.

Larry Goldfarb joined Mountain View's Management Information group as a Systems Analyst. He has had previous systems and consulting experience with Economics Research, IBM, and Honeywell.

Wayne Peacock has been appointed the Field Sales Engineer for Instrumentation's semiconductor test systems, serving the southeastern portion of the U.S. Prior to joining Fairchild, Wayne was a staff assistant with Sandia Corp. and a senior meteorologist with Honeywell Inc.

Jerry Bendinelli is now a Foreman with Semiconductor in Mountain View, supervising the test and cage area in Q.A.

Bill Whelchel has been named sales liaison engineer for Instrumentation's line of transistor curve tracers. His previous experience has been in both engineering and sales.

Nancy Walb has assumed the responsibility of traffic controller in Marketing Services. She was previously in the Advertising and Sales Promotion Department at Ampex.

Gene Hadley
650-327-4224

Leadwire

Vol. 9, No. 6

Published by and for Employees
of Fairchild Semiconductor/
Instrumentation

Mountain View - Palo Alto
San Rafael - Hong Kong - South
Portland, Maine - Shiprock, N.M.
Croydon, Australia - Ontario,
Canada - Tijuana, Mexico

Editor: Judy Horst

Art Direction: Tom Hewitt

Photographer: Ron Turner

Reporters:

MOUNTAIN VIEW—Carolyn Delgado, Marge Killian, Wes Cox, Lois Eagleston, Nellie Covington, Ginger Tygret, Keith Thomson, Judy Dunkelberger, Iantha Kochsiek, Katie Guida, John Walsh, Edna Lockes, Missy Strebig, Wanda Smith, Val Knowles.

SAN RAFAEL—Cleatus Dunkley, Audrie Graxiola, Janet Marz, Clarence Medeiros, Mickey O'Donnell, Margaret Queen, Hal Knopp, Cary Barford, Bobbie Talley, Anne Parfitt, Eleanor Francis.

RESEARCH & DEVELOPMENT—Dianne Cotton, Janet Jones, Terri Mead.

INSTRUMENTATION—Jack Ramon, Pat Campagna, Anna Ackerson, Walt Skruch, Jeanne Meyers.

#L is a registered trademark of Fairchild Semiconductor, a Division of Fairchild Camera and Instrument Corporation.

Copyright Fairchild Semiconductor
Printed in USA 4000-213-57 12M



Subject: REORGANIZATION

We're a large company, growing by leaps and bounds, but the fact still remains--we must continue to do a better job than our competitors if we are to keep growing. To accomplish this, I have organized the Semiconductor division into three separate and distinct Product Groups--each with responsibility for all aspects of manufacturing, engineering and product support for its product lines.

Three capable men head these Product Groups. Don Yost is Director of Discrete Devices, John Sentous heads Integrated Circuits, and John Ready is in charge of Aerospace and Defense (including the Hybrid Circuits group and Special Products).

The ultimate goal of this change, then, is to improve our ability to recognize our customers needs and to increase our flexibility to better meet our commitments to customers. These smaller, more effective Product Groups will do just that; each will have more easily defined goals and its management will have what I call "straight through" responsibility. That is, the three groups will function as the independent businesses they really are, solving problems relating to the products.

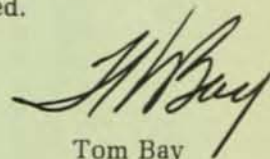
In time, separate facilities will be provided for each product group. Toward this end, South Portland has been designated as an Integrated Circuit facility reporting to John Sentous.

In another change, Jerry Sanders has been named

Marketing Director. In addition to managing the overall Marketing organization, he will be working with these Product Group Directors to provide the product support personnel for their groups. Just recently Jerry announced the creation of four new department managers coinciding with the new organizational plan. Ben Anixter now heads the Integrated Circuit Product Marketing Group; Ward Gebhardt, Discrete Devices Marketing; Chaz Haba, Aerospace and Defense Marketing; and Bill Welling is Headquarters Marketing Manager.

The Central Services group under Dick Fouquet will now report directly to me. Their responsibilities in the areas of manufacturing support for all product groups is unchanged.

In looking at the division as a whole, I am certain that we will all benefit from this new organizational structure. We can't help but have a smoother working organization and our capabilities will be increased immensely. You can be sure this plan has been carefully thought out with these goals in mind, but the true test of any change is that it must make use of all the knowledge and talent available, and that means you, the people involved.



Tom Bay
General Manager



TOM BAY



JOHN READY



JERRY SANDERS



DON YOST



JOHN SENTOUS



P · R · O · F · I · L · E · S

EVERY PERSON IS A VOLUME IF YOU KNOW HOW TO READ HIM.

Pinkie MacLean refutes the claim that nurses are grim, sober people--especially Diode nurses. She and her husband Neil and their 15-year old son Lance don greasepaint and combine talents to form a talented team of roust-about musical clowns. Both Neil (known as Jester) and Lance (Joker) are the greatest banjo players this side of Dixie, and Pinkie steals the show with her "gut bucket" (a combination wash tub, broom handle and heavy cord instrument). The musical clowns perform at charitable functions and service clubs, and they just recently won a trophy in the Pt. Reyes parade for street entertainment. They've performed from Hawaii to the Eastern seaboard; so it's no wonder Pinkie is such a natural spreading good cheer as swing-shift nurse at Diode.

Don Patchell, South Portland, is the World Champion Candlepin Bowler. It all started eight years ago when he was the assistant manager of a bowling alley in Portland. In 1962 Don won the Western Maine Championship and in 1967 the New England Candlepin Championship. With the New England victory tucked in his bowling bag, he participated in the world tourney and broke two records while capturing his championship title. To be a champion requires lots of practice, and Don bowls an average of 30 to 50 strings per week. He often travels more than 100 miles to tournaments, but it all paid off. It pays monetarily, too, for he has won more than \$2500 in prizes this last year.

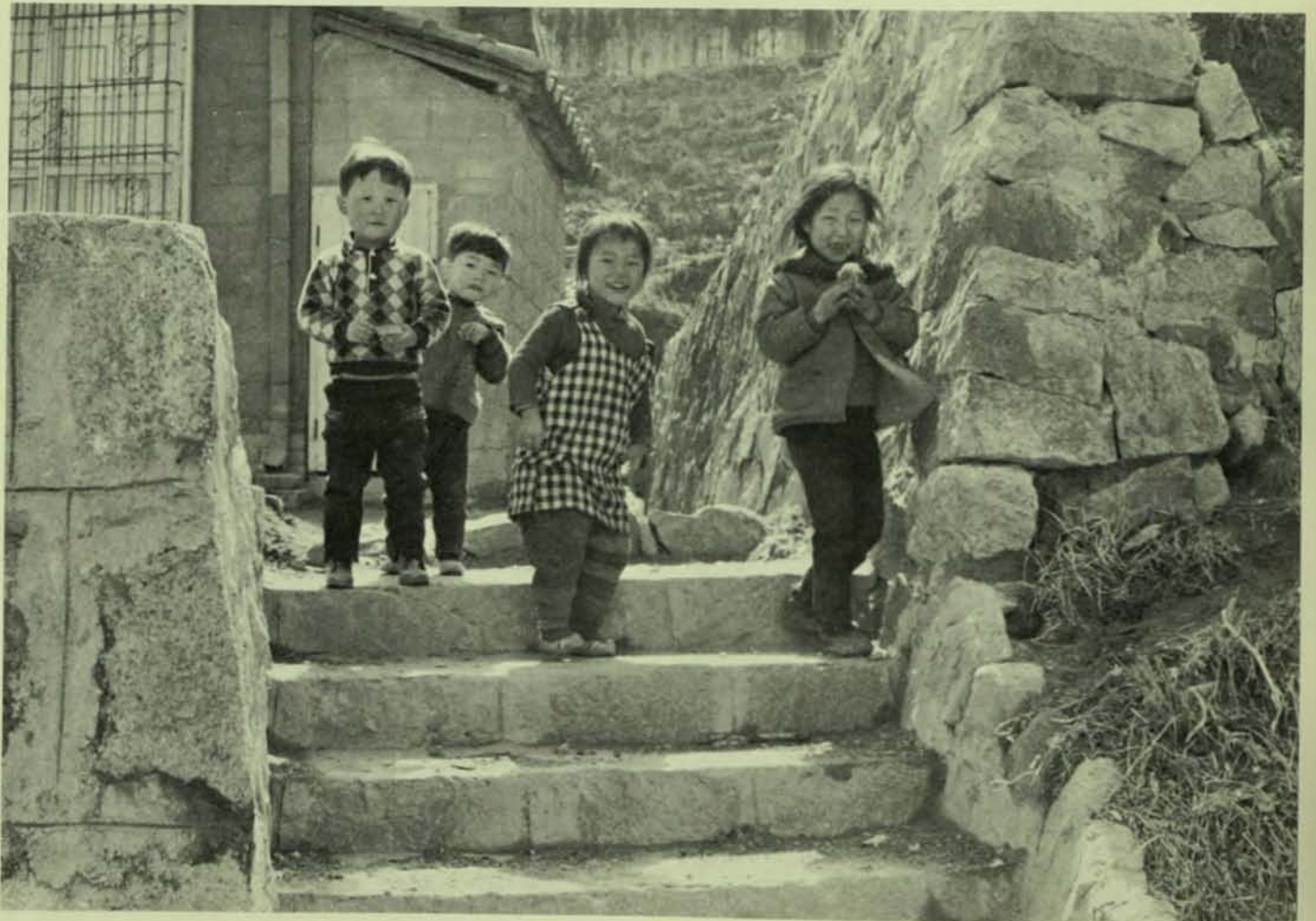
Noel Montagnon is section head of Systems Research at Instrumentation. On May of this year he gave up his Canadian and British citizenships to become an

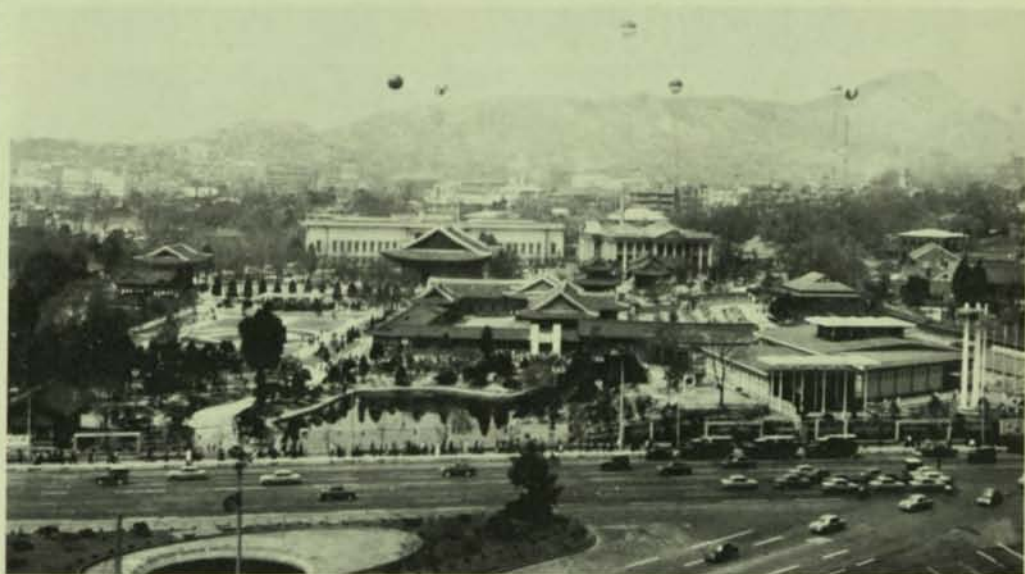
American citizen. Born in England right after World War I, Noel moved with his family to British Columbia when he was three. While growing up, he worked at a variety of occupations including sheep herding and prospecting. During World War II he became one of the first radarmen to be trained by the Canadian Army, and this was his introduction to electronics. He studied and worked both in Canada and England after the war. He participated in a Canadian-American exchange engineering program and joined Fairchild Semiconductor in 1960 as an engineer. He climbed the ladder of success rapidly and is well versed on Instrumentation's history. His other interests include photography, raising roses, singing in a choir and serving on a local Concert committee in the Mountain View-Cupertino area.

The people at Diode don't know it, but as Wayne Snodgrass drives to work each day, he's busily selling their cars or their furniture, and sometimes auctioning off the entire Diode plant. Wayne's just practicing his auctioneer's chant, for almost every weekend he's helping some church or charity raise money by donating his services as an auctioneer. Wayne, a recent graduate of Riesch American School of Auctioneering, spent his vacation attending the school and eight months before that he completed a correspondence course to learn the tools of the trade: salesmanship, pricing merchandise, crowd and individual psychology, and auctioneers' chants. Though he specializes in church and charity auctions, Wayne has sold animals, farm machinery, construction equipment, and entire businesses.

korea

The Republic of Korea, located on the southern area of the Korean peninsula, is home to more than 26 million people. Though it is one of the most densely populated countries in the world, nearly 80% of the population is still found in small farming villages. Heir to a cultural heritage dating back some 30 centuries, the ROK is staking its future in the development of cities like Seoul, its capital.





Focus: Seoul and Semikor, Ltd.

The countryside around Seoul remains little affected by the forces of modernization, but the city, itself, reflects the industrialization process that is taking place in most major cities of the Far East. A thriving, bustling city, but one in which ox cart still vies with automobile for the right of way, Seoul is home to three million people. It also serves as home of Semikor, Ltd., a wholly owned subsidiary of Fairchild Semiconductor.



Behind the doors of Semikor, plant manager Lyle Clevenger and his more than 200 employees perform assembly operations for epoxy transistors. Their finished products help to serve the Far Eastern markets.

Setting up the new plant meant literally starting from scratch, and much of this task fell to Lew Silverstein and Dick McScheffrey of the Semiconductor International Operations group. In November 1966 a site had to be selected and a building found or constructed. Supervisors and engineers had to be hired and trained in Fairchild methods of production. Many had never seen a transistor assembly line before their training began. Early in January equipment was installed, materials processed through government regulations, and then in mid-January the first girls were hired.

Everyone learned their skills well for on February 4th the first transistor was completed. The millionth unit came off the line by the end of March, and production hasn't slowed down since then.

In many ways Semikor reflects the traditions of the Korean people. For instance, when work first began, some of the girls asked if they might remove their shoes when entering the facility as the custom when one enters a Korean home. As a result, they leave their shoes by the doorway and wear slippers while at work.

It is in this way that the forces of industrialization and tradition are blending to give the best of both worlds, and Semikor is proving this every day.

EVERYTHING'S UNDER CONTROL at FAIRCHILD CONTROLS

On June 12, 1967 the Fairchild Controls Transducer Plant was presented with a Zero Defects Participation Award from the Department of Defense. The award was accepted by Don Lynam, Plant Manager, from Commander G. F. Gobbel representing the DOD.

The Transducer Plant has the distinction of being the first Fairchild plant to receive the Zero Defects award on the West Coast and the third over-all company to receive this award in the Western United States.

The Transducer Plant inaugurated its ZD program

August 2, 1967 under the direction of Brian Duncan, Q. C. Manager, and the DOD award was presented in recognition of the sustained effort and effectiveness of the program and the effort of all the employees to improve and control product quality.

The Transducer Plant manufactures high reliability pressure transducers, accelerometers, amplifiers and signal conditioning equipment for space, aircraft and industrial applications. The Plant was recently awarded a major contract for the pressure instruments on the Air Force's newest and biggest transport aircraft, the Lockheed C5-A.





Record Breakers

R & D's Chrome Mask Making group recently completed more than 2500 accepted chrome masks in one month. A year ago only 200 plates were being fabricated at most in a month's time. The credit goes to a great bunch of girls (Fran McDonough, Eleanor Gruenberg, Jean Parry, Edna Baker, Dolores King, Mary Durst, Bette Rhodes, Pamela Dennis, and Mary Melanson); Ron Ivancich, their foreman; Gene Blome, project engineer; and teamwork of the whole Mask Making Department.

Five Year Celebrations



These four are the first from South Portland to receive Five Year Service Awards. Dave Symons transferred from Mountain View in June 1966. He started as a production engineer and is now test engineer supervisor. Raymond Malatesta began his career with Semiconductor at South Portland as an electronic technician. He's now a test engineer. Marty Tiernan transferred from Mountain View beginning as an engineer. He's now a supervising engineer. Marcel Morrissette started at South Portland as a leadman mechanic. He is currently an industrial engineer. July adds a few South Portland women to the five-year list.

Other celebrations throughout Fairchild include those for:



Rosie Christiansen and Esther Iverson, Production Control, Mountain View.



Micky Armer, Small Instruments at Instrumentation, receiving her necklace from Ed Moore.



Zeta Moen of Commercial Test and Finish (MV)



Dick Steinheimer, Photography, Marketing Services (MV) receiving his award from Don Cruzen.



Ardith Webber of PIC at Mountain View.



Virginia Pace, QA Materials (MV), accepting her pin from Stan Brehm.

July Five Year Service Awards

Alan Mattal	MV	Charlotte Kachinsky	Diode
Dalia Aldana	MV	Phillip Noyes	Instr
John Baldwin	MV	Georgia Coleman	Diode
Angie Garcia	MV	Ken Taylor	SP
Nettie Sartain	Diode	Angelina Antonio	MV
Maybel Chatman	MV	Thomas Hart	MV
Archie Bryson	Diode	Mae Munson	MV
George Staudacher	MV	Ruby Smith	MV
Jovita Avalos	MV	Gene LeGall	R-D
Ruby Evans	MV	Robert Meyer	SP
Donald Blanchard	SP	Donna Dixon	MV
Gene Leduc	SP	George Jelich	MV
Dolora Stevens	MV	Stella Seratte	MV
Vincent Schommer	Instr	Helen Howard	MV
Bonnie Knox	MV	Octavia Bazile	Diode
Carolyn Thomas	Diode	JoAnn Lyons	Diode
Franciose Daugaard	MV	James Whitworth	Shiprock
Alma Caughey	MV	Angie Gonzales	MV
Felix Rosengarten	R-D	Donald Carson	Instr
Teresa Garcia	MV	Joan Major	MV
Betty Daniels	MV	Maria Humphrey	Instr
Konrad Herman	MV	Josie Ware	Diode
Marilyn Moore	Diode	Marjorie Build	SP
Elmer North	MV	Lilly Takiguchi	MV
Howard Alvord	Instr	Ed Tappan	MV
Paula Nyburg	MV	Ethel Cody	MV
Regina Lau	MV	Dora Davila	MV
Henry Mahler	MV	John Schmidt	MV
Tillie Paredes	MV	Edwin Barrett	Instr
Gladys Patterson	MV	Angela Abad	MV
Bonnie Page	MV	Hilaria Tomacder	MV
Gene Vaatveit	MV	Richard Staffieri	MV
Delores Riboli	Diode	Rose Stephenson	SP
Ann Hagan		John Thompson	SP

R & D



The Koshare Indians invaded R & D during their recent Bay Area tour. This tribe of Indians is an Explorer Boy Scout group from La Junta, Colorado, and the boys are renowned for their authentic Indian ceremonials and dances. Bob Rockwell, R & D Transducer, is from La Junta, and he knew the Koshare group needed sponsors for a trip west. So, he enlisted the Stanford Alumni Club to sponsor part of their trip and their performances in the Bay Area. He also arranged for them to tour the R & D facilities and to have lunch compliments of Coca Cola catering service.

Mixed softball is the game of the season, and R & D's mixed team opened the season June 14th against the Inventory Control team from Mountain View. They're not talking about the score, nor their second loss to Mountain View's Applications #2 team. Of the ten players on the team, eight were from DIED (does "DIED" fortell the team's destiny?), one from Materials and Processes, and one from Management. The R & D lineup: Donna Gaines, Catcher; Adrienne Juliano, Pitcher; Gordon McNeil, 1st Base; Tom Menzies, 2nd Base; Bob Robinson, 3rd Base; Felix Rosengarten, Right Field; Linda Angell, Shortstop; Ben Curiel, Short Field; Ben Reichardt, Center Field; and Rudy Dorilag, Left Field. While the team could use some playing support, rooters would be much appreciated, too.

Instrumentation

Pat Campagna's Moonlite Cruise to benefit the Fairchild Falcons was a big success. Nearly 200 Falcon fans sailed around San Francisco Bay from nine o'clock until midnight. Highlight of the trip: dance contests and champagne prizes to the winners.

And speaking of the Falcons, they're really clipping along this season. They just won the Hayward Fourth of July Tournament, coming in ahead of

twelve other teams. They placed second in the Memorial Day Tourney at Santa Cruz, took first in the Hayward League with a 7-2 record, and were second in the Fresno Pre-Season Tournament with more than 50 teams competing. Right now they are tied for first place in the NorCal League with a 9-3 record. Coming up in August is the AAA Regional Tournament at Napa. As defending champs, the Falcons will be fighting for a chance to go to the World Championship Tourney again. Falcon team member Ray Phillips is getting a taste of championship play with the AAA Allstars in a game against last year's world champs, Clearwater, Florida.



Ed Cooper received a \$100 check from Dr. Victor Grinich, Instrumentation's general manager. The reason? It's part of Fairchild Camera and Instrument's inventions incentive program which recognizes employees for their creative achievements. Ed invented the digital time base memory technique used in Instrumentation's most sophisticated digital voltmeter, the Model 7200, also shown here.



Another success story at Instrumentation was the Fashion show held in June. Mimi Assante directed the affair and received lots of assistance from Barbara Sleeth. Models included Barbara Fey, Madeline Hoover, Barbara Brown, Anita Cook, Micki Grapp, Irma Stengel, Karen Lewis, Rose Downey, and Darlene Stevens who double during the day as some of Instrumentation's prettiest employees.



Manny Lopez, Rod Schwartz, and Dave Delane, all of the Metal Production Control group, have accumulated the highest academic record for any group at Instrumentation whose members are attending school to advance them in their jobs. These guys are straight A students and that's hard to beat in anybody's grade book.

The Rec Council has quite a few activities going during the summer: a recent trip to the Giants-St. Louis ball game at Candlestick Park, B-League Softball, Summer Bowling, a newly organized Tennis Club, several Lob-ball teams, and summer picnic July 29th.



It was wedding bells for one of Instrumentation's favorites, Louis Kloeth, technician at Palo Alto. Louis and Shanna braved icy highways enroute to Reno June 1st.

SHIPROCK

Take 1000 people, a chicken and beef barbecue, lots of prizes, horeshoe pitching, volleyball, softball, and bingo; place them all on King's Ranch in Farmington, New Mexico; top it off with authentic, costumed Navajo dances performed by the Draper family; and you have one of the best summer picnics held this year. Of course, much of the credit for Shiprock's fun-filled employee picnic goes to Recreation Council members, spearheaded by Larry Sells, Council President.



Shiprock was selected as one of five companies throughout the United States to receive the 1967 Top Hat Award from the National Federation of Business and Professional Women's Clubs. The awards are presented annually to individuals and organizations who have made significant contributions toward advancing the status of employed women. Shiprock's award was given in recognition of the establishment of a plant to utilize the talents of Indian women on the Navajo reservation. The BPW citation notes that Shiprock is the largest non-governmental employer of Indians in the United States. "In addition to increasing the overall number of women employees," the citation says, "the division conducts on-the-job training, has established educational facilities in the plant and outside training to better prepare women for work, has encouraged educational courses for employees, and has raised pay scales for women by supporting legislation for equal pay." Hats off to Shiprock and Fairchild!

South Portland

Once again South Portland's back in newsprint, thanks to the concerted efforts of reporter Linda Allen; photographer, Bob Tetrault; and idea man Terry McCollister who also heads the Rec Council.



Cast your eyes on this. Though she fractured her wrist, Earleen Blake returned to work a week later. A broken wrist is no obstacle to her! Before the accident, she had completed three and one-half years of service without missing a day's work. No wonder she was back on the job so soon.



Paul Ross was the 1000th member of South Portland's Credit Union. As a result, he received an extra \$5 share, compliments of the Credit Union. The Credit Union began operation last September, and it now has assets of \$125,000 and more than 500 loans. It is the fastest growing Credit Union in Maine, mainly due to the hard work of manager William Bank and secretary Sandra Pombriant.



The seldom seen, but often heard PBX operators at South Portland are Paula Deasey, Marge Ford, and Dottie Kinney. The reason for the picture? A big thank you to some of South Portland's unsung heroes, or rather heroines in this case.



The girls at South Portland really know how to throw baby showers. Recently, on a typical "shower" day, nearly 200 gifts were piled high on three tables in the cafeteria. The lucky recipients were Geraldine Dennison and Linda Britton of the DIP line; Doris Sears, Die Fab; and Ellen Johnsen, Die Fab.



If you walk through the lines and think things seem brighter than usual, it's probably the result of Walter Perry's big, broad grin. Walter was promoted to line mechanic from his job on the ultrasonic bonding line. A native of Maine, he is a graduate of the Maine School for the Deaf in Portland.

Mountain View



Pat Chalmer and Marilyn Bertuccio are the winners. They grew the most perfect crystals in Crystal Growing. Both crystals are two inches plus or minus a tenth and are well within the specifications requirement of two inches plus or minus an eighth. Herb Henderson and Buzz Sawyer make one last measure as the two girls proudly display the two prize crystals.



The Slicing area of Silicon Materials held a summer picnic for employees and their families June 17th at Vascona Park. Everyone brought his own food and drinks, and softball was the game of the day. Swing shift topped day shifters in a close game, 7-6.

Golfers! The Mountain View tournament is August 13th (not August 20th as previously reported) at Spring Valley. The first swingers go off the tee at 10:30, so get your entries in early for an early tee time. Applications should be returned to George Reh or Dave Culley and must be in to them by August 2nd.

Bowlers! Watch the bulletin boards in August for sign-up sheets for the Fall-Winter Mixed Bowling League beginning in September. You can sign up individually or sign up with friends to form your own team. Marion Oswald reports that the number

of available alleys at Futurama Bowl is limited, so be one of the first to sign up.



Taking advantage of good weather and good home-cooked food was the PNP group.



It's Fairchild's own "Old Faithful" and here with the story behind the picture is Madhu Desai, Senior Product Marketing Engineer in Hybrid Marketing, who was accidentally involved in this "happening". "My car was parked in front of the Fairchild Drive building at the end next to the employee parking lot. A car going north on Fairchild Drive swerved left to avoid hitting a jeep truck that pulled out from the parking lot and in front of it. In swerving he hit the fire hydrant, jumped the sage brush area, and hit my car broadside. The gush from the fire hydrant was more than 40 feet high. Both cars had to be towed away and the damage to my car was \$900."



Marking ARA's first anniversary serving Mountain View's cafeterias was a special occasion. Joycelyn Cartillar and Carol Yeager helped cut the cake and ARA's Ron Todd and Semiconductor's Eric Bertraun assisted passing out the free coffee and cake to employees.



Robert LaVigne was surprised by a "bridal shower" thrown by his swing shift gals in Mechanical Polishing the day before his wedding. Gloria Walker, April Yoshikawa, and Lucy Kennedy organized the pot-luck.



Val Knowles and Missy Strebig, Charity Committee members, were on hand for the opening of the Whisman School District's brand new Children's Center at San Ramon School in Mountain View. The \$15,000 mobile classroom was constructed entirely with funds from Fairchild Semiconductor and its employees as administered by the Charity Committee. The classroom relieves the backlog of nursery school children the school district was faced with just two years ago.



Cupid paid a visit to Equipment Fabrication and Design in May. Judy McDonald and Steve Kutay surprised their fellow employees by eloping to Reno. On their return, the surprise was on them--a kitchen shower and reception.



Mountain View Rec Council Appoints Administrative Advisor

Coordinating the picnics, dances, and the myriad of sports for more than 5,000 employees located in some 18 different buildings in the Mountain View area is a difficult task for the best of Rec Councils.

The answer? A Rec Council director; an advisor; or better yet, an administrative advisor--someone who can devote most of his working day to coordinating all the activities, starting new ones, and locating additional recreational benefits for employees. Not a bad idea, and that's just what Fred Pieper will be doing. He'll be working closely with the Rec Council and its president, Bryce Herbst, to broaden the scope of recreational activities at Mountain View. Not a bad idea at all.

Diode

"Hey! Let's have the cleanest, sharpest plant in all of Fairchild", and that's just what Diode's doing. They figured the best way to do it was to set up a house keeping contest and each month the winning department gets the "Good Housekeeping Award". The worst department gets the "Pig Pen" banner. Inspections are conducted by the hourly employees safety committee, and so far the effort is paying off. Nobody's anxious to have their department tagged with the "Pig Pen" banner. First month's winner

was Fab II, and since the "Pig Pen" award had to be given, the good sports in P.C. Finish said they'd take it, but only for one month.



The fifth annual Diode golf tourney will be held at the San Geronimo course August 6th. 30 contestants will be matching strokes for the winners prize.

After being down by a score of 5-0, the Diode softball team scored 7 runs to win their first game in five outings. Two more games complete the spring warm-up, before the team enters the tough summer league. A game with San Quentin is also planned. Leading sluggers are Jim Smith with a .500 average; Al Danks, .477; and Bruce Mack, .467. New team members include Mike Feldtman, second baseman; Frank Ellis, right fielder; Al Stone, center fielder; and Ron Randall, short center fielder.

New Faces

Warren Atwood is a new Engineer in QA at Diode. He just recently graduated from Carnegie Institute of Technology.

Yu Tang Wang joined San Rafael as Product Engineer in Special products. A graduate of the National Taiwan University, he just completed studies at Oregon State University.

Laszlo Farago joined South Portland as a Production Supervisor in the Test Area. He just recently graduated from Newark College of Engineering.

Leon Davis is a new Production Supervisor in the Assembly Area at South Portland. Leon retired from the U.S. Marine Corps last December.

James Hood came to South Portland from Transitron Electronic Corporation. He is now a Production Supervisor in the assembly area.

Gwido Swistun joined the South Portland group as Manager of Design Engineering. He formerly worked for General Instrument.

William Lonergan comes to Fairchild's South Portland facility as Test and Finish Supervisor. He most recently worked for Components Incorporated.

Edward Sheehan comes to Fairchild as a Production Controller. Before joining South Portland, Ed was with Spectrol Electronics.

Leo Paquin joined South Portland as a Production Supervisor. Most recently he was with Sherwin Williams.

Dr. Robert Sugarman has been appointed Manager of Research and Development for Instrumentation's Clifton facility. He holds the patent in the United States for the original sampling oscilloscope. Prior to joining Instrumentation, Dr. Sugarman was a senior research associate at Columbia University.

Michael Bottini joined the module group at Mountain View as a Manufacturing Engineer. He recently completed his MBA at the University of California, Berkeley.

Robert Powell joined Mountain View as a Foreman on the swing shift of HIC. He worked previously for Union Carbide.

Frank Yamada is a new Senior Electronic Engineer at Microwave. Before joining Fairchild he was with the Pearl Harbor Naval Shipyard as a nuclear power engineer.

Joern Eriksen joined the R & D group as an Engineer. He most recently was a Lieutenant in the Danish Navy.

Moving Up

Laurence Luckock recently became an Applications Engineer. He was formerly IBM project coordinator and Product Marketing Engineer at Mountain View.

Peter Noto moved up from Senior Engineer to Section Head in Microwave device and Hybrid Circuit sections at Microwave.

Tom Anthony was appointed to the new position of Marketing Development Manager for Special Accounts. He will be responsible for Canadian sales and marketing, SGS European sales liaison and licensee and private brand sales. He was formerly Far East Marketing Manager for Semiconductor.

James Whitworth was promoted to Manager Engineering Services in South Portland. He was Manager Engineering Services at Shiprock.

Errol Golsan transferred to the position of Production Supervisor at South Portland. He was Production Supervisor at Toronto for the Canadian facility before moving to South Portland.

John Vennard was promoted from Product Engineer to Supervising Engineer of Hybrid Circuits at Mountain View.

Mikio Suzuki was promoted to Supervising Engineer from Senior Engineer at Diode.

Dave Powell was promoted to Employee Relations Supervisor for the Mountain View complex. He was formerly Senior Area Personnel Administrator for the IC and Discrete Device groups.

John Walsh was promoted to Personnel Administrator. He previously held the title of General Employment Supervisor at Mountain View.

Ken McCammon was promoted to EDP and Spec Control Coordinating Supervisor in Order Processing. Before that, Ken was a Production Planner and was temporarily Sales Liaison Engineer at Diode.

William Schoenemann joined Memory Products as Production Manager-Systems Manufacturing. He transferred from the Instrumentation division where he was Production Manager-Instruments.

Larry Frankfurt has assumed the Distributor Product Marketing title. He most recently was with the Mountain View Distributor Sales group.

Frank Paone advanced to Foreman in the Slicing, Evaluation and Chemetch area at Mountain View. He was a Lab Tech before his promotion.

Steve Zelencik is the first member of Semiconductor's sales team to be named to the newly-created post of Account Executive-Burroughs.

Bob Chamberlain was promoted to Field Sales (midwest industrial) from his job as Product Marketing Engineer.

John Arthur advanced to Senior Personnel Administrator at Mountain View. He was previously Mountain View Safety Engineer.

Mike Noble was promoted to General Employment Supervisor at Mountain View. He had worked as Personnel Assistant in the General Employment section.

Stan Goobich was appointed Assistant Advertising Manager in Marketing Services. He had previously been working as Military Account Manager and will continue to service the Military marketing group, but he will no longer handle any product oriented service work.

Dick Beck advanced to Senior Quality Control Engineer from QC supervisor at South Portland.

Ed Kruger was promoted from Technical Supervisor to Supervising Engineer at South Portland.

Fred Hopkins advanced from Production Supervisor to General Foreman at South Portland.

Fred Arehart is now Production Supervisor at South Portland. He was formerly Mechanic A.

Will Willis was promoted from Systems Analyst in the finance systems section of Management Information at South Portland to South Portland Resident Systems Analyst in Manufacturing Systems.

Philip Downing moved up to Engineer in the Physical Device Research group at R & D. He was previously a Product Engineer.

Richard Kors was appointed Product Marketing Manager for Proprietary Integrated Circuits. He was recently Regional Sales Manager for military sales in the Southwest.

LEADWIRE 7 Published by and for
Vol. 9, No. 7 Employees of Fairchild
Semiconductor/Instrumentation

Mountain View - Palo Alto
San Rafael - Hong Kong -
South Portland, Maine -
Shiprock, N.M. Croydon,
Australia - Ontario, Canada -
Tijuana, Mexico

Editor: Judy Horst

Art Direction: Mark Gorse

Photographer: Ron Turner

Reporters:

MOUNTAIN VIEW—Carolyn Delgadillo, Marge Killian, Wes Cox, Lois Eagleston, Nellie Covington, Ginger Tygret, Keith Thomson, Judy Dunkelberger, Iantha Kochsiek, Katie Guida, John Walsh, Edna Lockes, Missy Strebig, Val Knowles.

SAN RAFAEL—Cleatus Dunkley, Audrie Graxiola, Janet Marz, Margaret Queen, Hal Knopp, Cary Barford, Bobbie Talley, Anne Parfitt.

RESEARCH & DEVELOPMENT—Dianne Cotton, Janet Jones, Terri Mead, Adrienne Juliano.

INSTRUMENTATION—Jack Ramon, Pat Campagna, Anna Ackerson, Walt Skruch, Jeanne Meyers.

SOUTH PORTLAND—Linda Allen, Bob Tetrault.

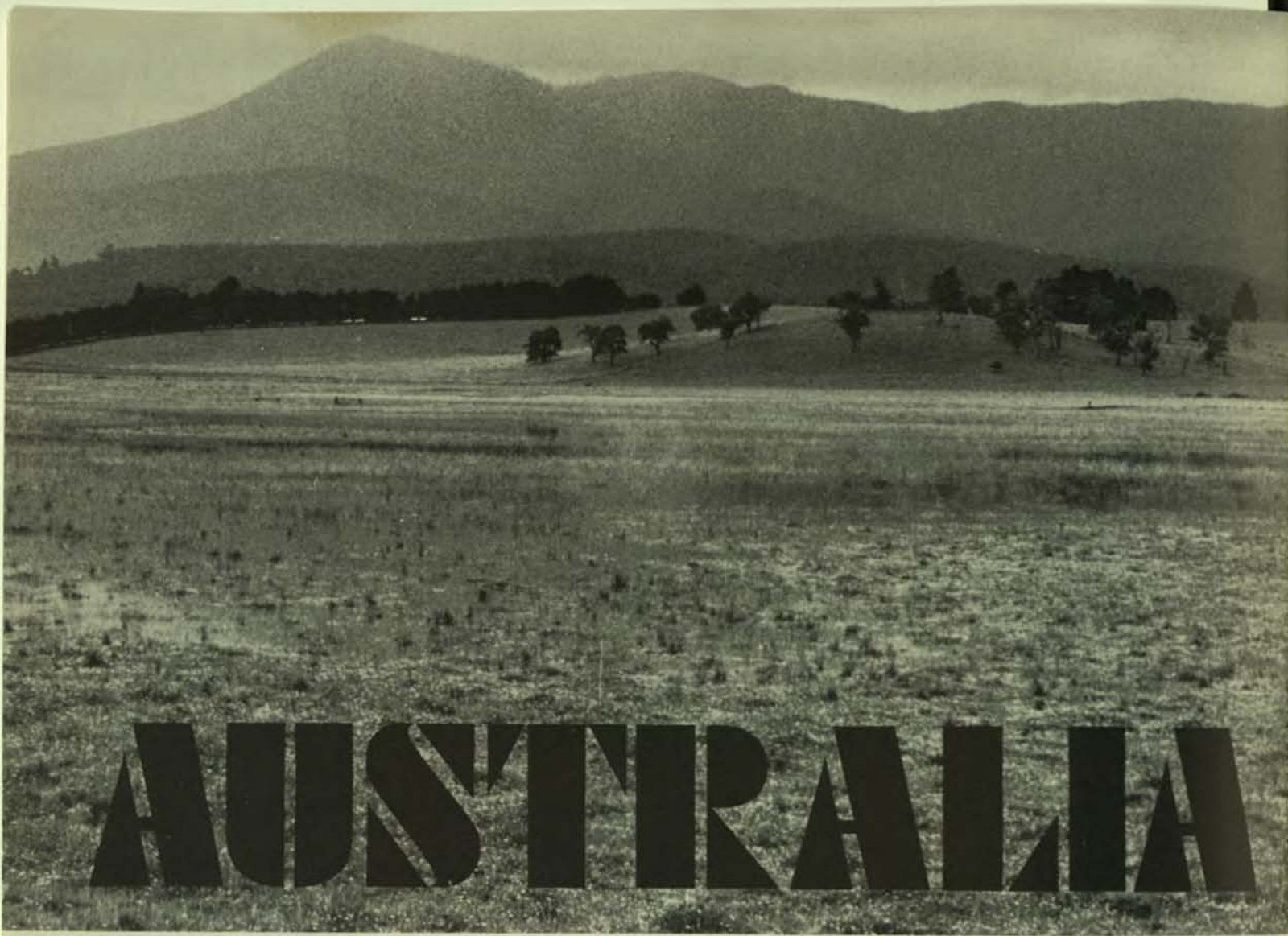
mL is a registered trademark of Fairchild Semiconductor, a Division of Fairchild Camera and Instrument Corporation.

Copyright Fairchild Semiconductor Printed in USA 4000-342-77 10M

Cover Photo by Lew Silverstein while on assignment in Seoul for Fairchild Semiconductor. Lew shot all the photos used in the Semikor, Ltd. story.

Ginger (Tygret)
Jenkins





Australia stretches almost three million square miles—an area slightly less than that of the United States. Remarkably, though, there are only about 12 million people on all this land. Australia's dry, arid interior has encouraged people to settle near the coasts where temperatures are mild and lack extremes. Long famous as one of the world's leading producers of wool and as a land of rugged individualism and abundant opportunity, Australia's cities are rapidly changing to meet the challenges of industrialization. One such partner in this progress is Fairchild Australia, Pty. Ltd., integral part of Fairchild Semiconductor's world-wide operations.

1. Rolling hills of the Dandenongs create a scenic background to the Fairchild plant.

2. No visit to Australia would be complete without a kangaroo. This one's sleeping in the hot Australian sun at a nearby wild-life sanctuary.

3. Interesting wide-angle shot of Fairchild's Australian plant. In front are Robert L. Major (former Marketing Manager and now Marketing Manager, Japan, Korea, Okinawa); John Baldwin, General Manager of Fairchild Australia; Chris Reardon, Production Manager; Lionel J. Hunt, Marketing Services Supervisor; and Sue Dakin, Secretary to Marketing Manager.

4. Trevor Andrews, a native Australian, serves as new Marketing Manager.

5. Teresa Mascaro, Production Clerk, watches John McClusky, Training Instructor (seated) and Karl Kramer, QA and QC Supervisor, diligently inspect one of the firm's adding machines.

6. Pauline Walters, Margaret Hartshorn, and Gladys Oakley operate Fairchild M300 testers.

7. Robyn White, Material Handler, keeps records of stock used on each station, while in the background Chris Reardon, Production Manager, confers with Pat Robinson.

8. Lorna Johnson and Hilary Goodier, Die Attachers, take their break outside.

9. Girls enjoying a coffee break in the company canteen.



FOCUS: FAIRCHILD AUSTRALIA

Fairchild's Australian operation was begun in early 1964 at South Yarra near Melbourne expressly to serve the Australian, New Zealand, and Tasmanian markets for semiconductor devices. In 1966, general manager John Baldwin and his group moved into a new 19,000 square foot facility located in Croyden north of Melbourne. Today there are more than 100 people working for Fairchild Australia and their activities center around the production of metal can and epoxie transistors.

An aggressive company in an expanding market has proven to be a winning combination. The Australian plant has captured about 40% of the total semiconductor business in its territories in its short three-year existence. And this is just the beginning.

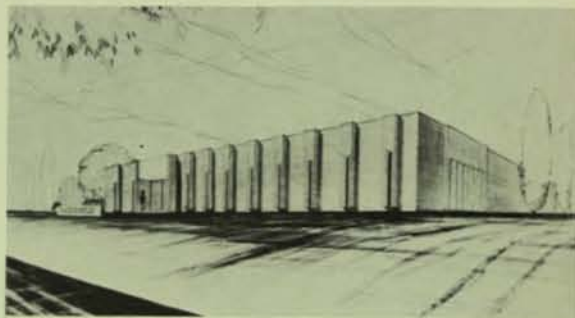


NEW

TORONTO Building JUST THE START OF THINGS TO COME



Prior to ground breaking ceremonies, Dr. Robert Noyce, FCI group vice president, toured the present Toronto facilities. John Beverley, supervisor, and Geoff Winkler, manager Hybrid Products Department hosted the tour. At the ground breaking, Vivien Wrigglesworth and Joyce Banks greeted local businessmen and officials. After informal remarks by Dr. William Hare, plant manager, and Dr. Noyce, Mayor James D. Service of the Borough of North York joined the two men in officially breaking ground for Toronto's 25,000 square foot facility.



Breaking ground July 28th for the construction of a new facility for FCI Canada's Semiconductor Division was a dream come true for plant manager Dr. William Hare and the nearly 50 people working at the Toronto facility. The Toronto group has worked in temporary quarters since its beginning in May 1966, and the completion of the new building means all the employees will be working under one roof for the first time.

The new plant will be located in an industrial park in North York, a borough on the northwest edge of Toronto. It will incorporate 25,000 square feet of production, research and office space, and included in the one-level design is a fully equipped cafeteria for employees. There's lots of room for expansion on the five-acre plot of land, and when the building is completed in November, it will be ready to house some 200 people.

The Toronto group will easily utilize the new facility as a result of a recent \$1.2 million contract awarded by the Defense Research Board of the Department of National Defense, Canada. The three-year contract calls for research and development of the state of the art in thin film hybrid products for microelectric applications.

Paralleling this, plans also call for the Toronto facility to provide similar research and development and production of thin film hybrid circuits for Semiconductor's Canadian and U.S. markets. Additionally, the group will continue to perform test and finish operations for all discrete and IC products sold to Canadian customers.

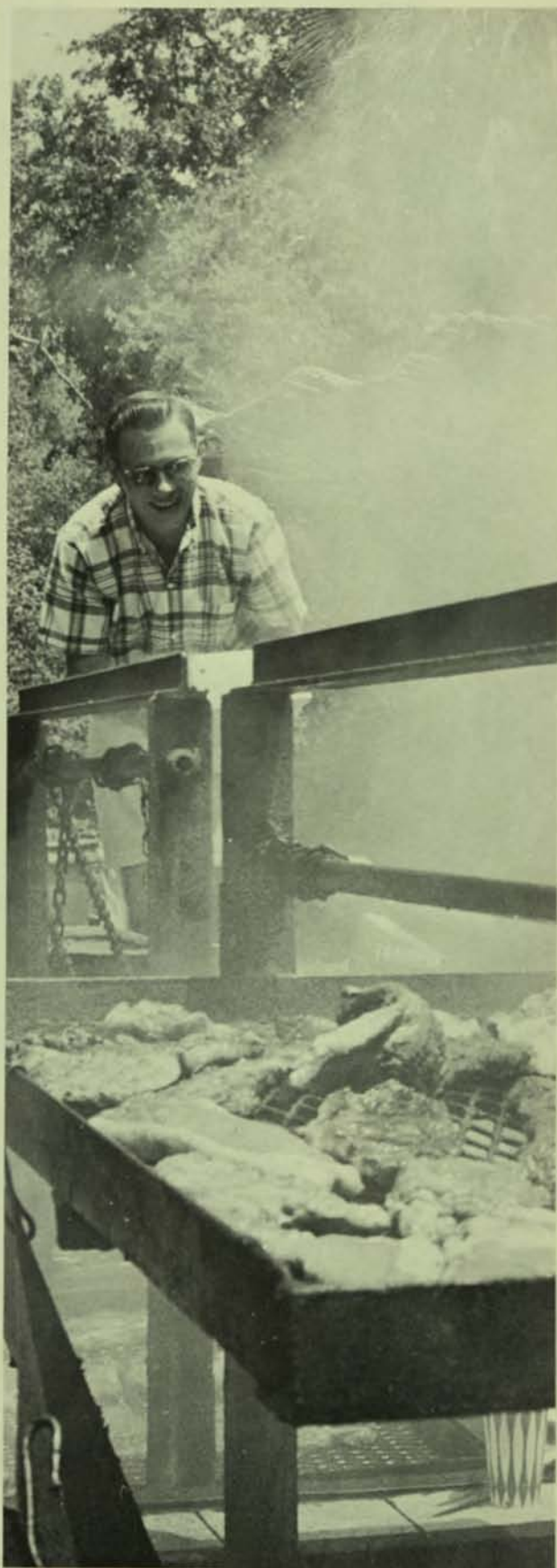
With all that in store for FCI Canada, the new building couldn't have come too soon.



discrete devices

PICNICS 1967

Summer picnics happen "as regular as clockwork" at Fairchild. But they don't just happen. Many employees put together menus, activities, and prizes to make their group's picnic a smashing success, and to them goes the credit for making Rec Council-sponsored summer picnics the best attended activities of the year.



cic and cia



central services



marketing



materials



memory products



Mountain View



The Materials group chartered two buses, twelve cases of beer, and about 80 tickets to a Giants ballgame on July 30th. It was a winning combination.



Renato Mazzucchelli, SGS Industrial Relations Manager, paid a visit to Semiconductor's Industrial Relations Director, Harry Eser, during a visit to the Mountain View facility. While here Renato got a close-up view of the many aspects of American-based operations.



Dan Killeen was surprised by a "baby shower" given by the girls in Slicing. In fact, July was a big month for the group, eight birthdays to celebrate: Jane Frejo, Wayne Howard, Mary Siefert, Glenda Sikorski, Hortencia Rayna, Rose Uriarte, Roy Squatritto, and Toni Contu.



The hand is quicker than the eye, and to watch Fran Esposito of Slice Evaluation gauge wafers proves the point. Breaking standard is becoming routine for her. She gauged 11,700 wafers during a recent swing shift day. Standard is 5,500.



Lu Ross must have had a great time at the Memory Products picnic. He has a sprained ankle to show for it. Lu claims he hit a home run during a wild softball game and as he rounded third, the whole team and half the fans jumped on top of him.



Here are some girls who know what softball's all about. The girls' team is undefeated in the B-division of the Mountain View City Recreation League. Team members are Vickie Fontes (manager), Jean Decoite, Brenda Tripp, Gloria Kirby, Dolores Carranza, Marge Pagan, Dianna Coburn, Brit Bjornstad, Judy Barkhoff, Gloria Simpson, Dolores Waters, and Sharon Spinelli. Not pictured are Janet Hill, and Stef Michelson.



One noon hour Paul Hwoschinsky removed his bagpipes from the case and gave an impromptu concert for friends on the roof of the Graphic Arts building overlooking the Mountain View complex. Paul, a member of the group Vice President's staff, and Phil Lenihan, head of Marketing Research hope to interest fellow pipers into occasional piping sessions. B'gorra, they'd like to hear from anyone interested in joining them.

At a recent meeting of the Electrical Maintenance Engineers Association of California, Plant Engineering Manager Eric Bertraun was elected to the Board of Directors of the Association. He also received a portable G.E. radio as token of the Association's appreciation for a paper he delivered to several hundred engineers at the 15th Annual Western Electrical Exposition and Industrial Technical Conference held in San Francisco. The subject of his talk was "Electrical Maintenance in the Electronics Industry."

Instrumentation

Pitcher Lou Rodriquez led Instrumentation's B-League softball team to a first place tie in the second half of the season's play. Competing against 15 other teams in two leagues, Lou pitched 11 consecutive games and gave up only two earned runs in six straight games. With a 17-4 record, the team will be fighting it out for nine more games to remain on top.



Tom Bird's girl surprised him with a birthday party complete with cake and coffee, a new sailing parka, and a brightly decorated Systems Chassis Assembly area.



Russ Walton received his second cash payment since joining Fairchild Instrumentation. This time it was for his technical article published in the April 1967 issue of *ELECTRONIC DESIGN*. The article, "UJT's and Magnetic Cores Combine To Generate A Wide Range Of Variable Duty-cycle And Repetition-rate Pulses," has been applauded by many in the electronics field. Chris Coburn (right), Instruments Group Manager, made the presentation.



Instrumentation's Don Emerson was named "Father of the Year" in his hometown of Fremont. "Because he takes good care of us when my mother goes to the hospital to have a baby," and "Sometimes he even lets us have frogs if we don't get too fussy over them," and "He lets us have and do the things he thinks we deserve. Even though we say 'well other children get to do this and that,' he still does what he thinks is best," are just a few of the reasons his oldest daughter Lisa, age 10, listed in the winning letter to the Chamber of Commerce. Her letter was chosen from 250 entries and she received prizes including a weekend at the Highlands Inn in Carmel, tickets to a Giants game, and new outfits for herself. Lisa isn't the only who's proud of her father. Don's other children, Mark, 8; Don, 6; John, 3; and Karen, 1, all share her prize-winning admiration.

Research & Development



Dr. Gordon Moore and his wife got a first-hand glimpse of the Hong Kong operation while there in May.

Dr. Harry Sello doubles as an auctioneer at least once a year, especially when it's time for KQED's Auction. The San Francisco educational TV station derives about 25% of its annual operating funds from the auction, and Dr. Sello has been lending a hand with his auctioneering services for seven years. He also lectures on a program, "Science in the Laboratory" for the station.

From the Field



Marty Cohen was named May's Salesman of the Month, and for very good reasons. Working out of the Wakefield Sales Office under Herb Richman, Eastern Computer Regional Manager, Marty's booked orders at the rate of a million dollars a month since the beginning of the year. Marty joined Fairchild last September, and he has been working with the Honeywell Computer Division. He booked orders for 12 million discrete devices and two and a half million integrated circuits. He also has several new custom integrated circuit programs evolving at Honeywell, proving he's out to maintain his great sales record!

Secretaries at the Wakefield Sales Office were asked to write a paper on handling telephone calls and using the phone to good sales advantage. The three judges (Don Curry, Gordon Russell, and Vince Sabella) picked Judi Worthington's entry as the winner. The following excerpts from Judi's paper could be put to good use everywhere at Fairchild. "I am a telephone. I come in many

colors and sit on many desks. I am nothing special to look at and yet I am probably the most important piece of equipment in a sales office today. Through me come irate, upset, aggravated, timid, shy, anxious or curious customers (or potential customers) . . . I am merely an instrument. Without Miss Fairchild and Mr. Salesman and their courteous attention to phone calls, we wouldn't have any customers to call our own. It's all up to you."

San Rafael

San Rafael's summer picnic will be October 1st at Marin Town and Country. From 9:00 a.m. until 6:00 p.m. San Rafael employees will have exclusive rights to the swimming and picnicking facilities of the club. Tickets go on sale for three weeks beginning September 1st.

It's almost time for the bowling season to begin again. September 6th is the date for all swing and day shift employees to start league play at Country Club Bowl in San Rafael. This year San Rafael will operate a "money" league which should boost attendance considerably.



Go Team! The San Rafael softball team begins play in the Marin County summer league. Hal Knopp, team manager, feels a reoccurrence of last year's leaky defense and inadequate hitting are the two trouble spots, but morale is high even in these difficult times. Team members are Bruce Mack, Hal Knopp, Harry Spence, Mike Feldtman, Frank Barton, Al Danks (all standing), and Warren Atwood, Al Stone, Jim Smith, Wayne Snodgrass, and Herman Martin. Not pictured: Dave Zahmsen and Frank Ellis.

San Rafael vacationers are heading around the world this summer. Robin Hodge is off to London for a month, Ashok Abhyankar is making a two-month circle of the globe, Alan Grisemer is planning the same trip but for six months, Sigmar Faiss will be visiting Stuttgart, Germany for two months, and Karel Svoboda is off to New York, Expo '67, and Chicago. Lucy Cartmill's staying closer to home. She hopes to make her fortune at Reno. The majority of employees plan to head for nearby lakes, national parks, or home for a well-deserved rest.

Dorothy Keller of Applications and her husband, Jess, will repeat their wedding vows on their 25th wedding anniversary September 7th. They were married in Las Vegas and plan their second ceremony at the same church with the same minister. After a few days there, they will continue to Hawaii for two weeks on a second honeymoon. Isn't love grand!

South Portland

South Portland's Junior Achievement group provided a service to the local community at a 6% return to the company's investors. Their half-hour television program, "Teens With A Question," ran for 13 weeks for 30 minutes on Sunday afternoons.

Fairchild sponsors Frank Finelli, William Banks, and Norman Locke helped the teenagers design the unique question/answer program, but the youngsters bargained with WGAN-TV managers for time, sold time to local sponsors, and produced the programs and all the commercials.

The programs dealt with community affairs as well as teenage issues. Each panel discussion group included four teenagers from the JA company, JA-TV Enterprises, and a guest from the Maine community. Each guest was questioned by the rest of the panel. John Magarian, South Portland's Plant Manager, discussed "Industrial Technology And Its Effect On The Community," and George Manolakis, South Portland's Industrial Relations Manager fielded questions on "How To Apply For A Job."

The broad range of subjects included "Viet Nam—Why Are We There?" discussed by William Langley, a reporter for the *Portland Press Herald* just back from special assignment in Viet Nam; "Teenage Driving," Captain William Hancock of the Maine State Police; and "Why Maine As The Home Of A Successful Star?", actor Gary Merrill.

The following excerpts from a sponsor's letter sum up the success of JA-TV Enterprises. "... It has been our unanimous feeling that the quality of your program was a decided asset to the sponsors. . . . If a similar company is formed next year, we would enjoy hearing from its representatives and participating again."

Profits were donated to the Portland Rotary Club and will be used for loan assistance to first year college students. All of South Portland's sponsors and participants can take a well deserved rest, but they can feel proud in knowing they've helped produce probably the best product of this Junior Achievement endeavor—youth helping youth.





The Magic of Five Years

Five years holds great significance for Paula and Jac Nyburg. Five years to the date after they arrived in the United States, they received their citizenship. And so, when Paula received her five-year service award July 20th, Jac just had to be close behind. On August 11th he happily accepted his.

Jac and Paula were both citizens of Holland. After working for more than twenty years in Mining and Geological Research in Germany, Belgium, and Holland and another nine years in the Belgian Congo as a supervisor and master driller in mineral research, Jac decided to bring his family to the U.S. That was in 1960.

Not knowing the English language, Jac accepted a job in a small electronic parts production shop. Paula raised their daughter Jacqueline who today is 18 years old. In 1962 Paula started to work at Fairchild; it was her very first job. A month later Jac was hired as a mechanic at Mountain View. Today Paula works in Incoming Inspection, and Jac is in charge of maintaining and servicing optical instruments and microscopes. Remarkably, in his five years with Fairchild, Jac has never missed a day of work. Oops! He did miss one, but that was the day he and Paula took their citizenship tests.

Aug./5yr. Service Awards

Angie Lewis	MV	Joseph Hulboy	MV
Chester Ray	MV	Lorraine Seay	MV
Hildeswith Ferchau	MV	Sharon Perry	MV
Beatrice Sanford	MV	Charles Bittmann	R&D
Carol Bino	DIODE	Cecilia Esparza	MV
Rachel Lira	MV	Mervyn Brillhart	MV
Mary Barashas	MV	Elizabeth Pak	MV
Betty Nichols	DIODE	Muni Aggarwal	DIODE
Selma Van Huss	DIODE	Margaret Sanders	MV
Irene Poirier	MV	Jacques Nyburg	MV
Dolores Cannon	MV	Rebecca Ruano	MV
Alice Gutierrez	MV	Frances Harris	SP
Charlotte Althenn	SP	Barbara Crump	DIODE
Margaret Bejarno	MV	Peter Dubenko	INST
Irene Jacobson	MV	Carmen Ynzunza	MV

James Rierson	MV	Joseph Malone	MV
Weston Butts	MV	Thomas Anthony	MV
Dorothy Gray	R&D	Mavis Eastabrook	SP
Elee Wright	MV	Pearl Gurr	MV
Anita Lugo	MV	Robert Lindsey	MV
John Miller	INST	George Powers	R&D
John Lawrence	R&D	Armando Nila	CONT
Leria Logwood	DIODE	Dave Burke	SP

FIVE-YEAR CELEBRATIONS



1. Donna Dixon celebrated her five-year anniversary with friends at Aerospace and Defense. Tom Moore presented her with the necklace.

2. Ethel Cody received her five-year service award from Ben Stelzriede amid the Slicing group at Mountain View.

3. Maria Humphrey, Instrumentation, was guest of honor at a party to celebrate her five-year anniversary.

4. Joan Major, QA at Mountain View was another honored by friends when she received her five-year service award.

5. Phil Lenihan presented Elmer North, Marketing Research at Mountain View, with his well-deserved five-year pin.

6. There's a very special department at Diode, and what makes it special is that sixteen members of it have been with Fairchild for five years or more. Al Dank's Scheduling and Expediting group is the department (though Al doesn't have his five-year award yet), and the five-year veterans from all three shifts are: (standing) Al Danks, Mike Bromham, Jean Wickliff, John Westhoff, Bea Sartain, Lois Brown, Jessie Johnson, Jim Bell, and (seated) Flo Katberg, Louise Bagdanoff, and Helen Dougherty. Not present for the photo were Pat Maggiora, Gloria Fugere, Dora Singleton, Billie Jinter, Leria Logwood, and Wilma Wells.



LEADWIRE'S SECOND ANNUAL COMPANY-WIDE AMATEUR PHOTO CONTEST

Contest rules:

1. Only employees of Fairchild Semiconductor and Instrumentation and the Mountain View Controls Group may enter, but only one entry per person, please.
2. All entries should be at least 5" x 5" or 5" x 7" depending on negative size.
3. Both black and white and color prints will be accepted.
4. The four categories of competition are: still life, scenics, sports/action, and human interest.
5. All entries will be judged on content rather than technical quality.
6. All entries should be sent to *Leadwire* (MV) by October 31st.
7. Each entry should be accompanied by a piece of paper which includes the employee's name, department/section and plant location, and indication as to which category the photo will be competing.
8. Prizes will include cameras, radios, and camera accessories. There will be one grand prize, four first and four second prizes (one for each category), and eight honorable mentions.
9. All photos will be returned, but the *Leadwire* reserves the right to use any photos entered in the contest.

New Faces

Bill Strickland is new Personnel Assistant at Mountain View. Responsible for hiring hourly employees, he was formerly Director of Finance for Juneau, Alaska.

Paul Mallory joins the Semiconductor Division as a member of the general manager's staff. Formerly with the Instrumentation Division, Paul was Manager of the Clifton Plant and more recently was Operations Manager of the Instruments Group. His assignment is to develop a long range plan for facility needs.

George Perris joins the Distributor Sales team as Distributor Market Development Mgr. reporting to Ed Farrell. He has had previous semiconductor and distributor experience with ITT, Transistron, National Transistor and General Instrument.

Ronald Burley joins San Rafael as Spec Product Engineer, working in the Can Line Diode Production, Wafer Testing, Ultrasonic Bonding, and Ceramics areas. He was formerly a teaching assistant at the University of Washington.

Thomas Cook joins R & D as an Engineer. He was formerly with IBM.

John Brown comes to San Rafael as a recent graduate of Oregon State University. He's starting his career as a Product Engineer.

Bruce Schatz was appointed Junior Accountant at South Portland. Prior to joining Fairchild he was employed at Bliss College.

Joseph Lussier is a new Product Engineer at South Portland.

Gene Pelletier is new Customer Services Manager in the Marketing section at South Portland. He previously worked with National Semiconductor.

James Agnew is a new Supervisor in the assembly area at South Portland. Prior to joining Fairchild he worked for Aetna Casualty and Surety Company.

Sterling Clockedile joined South Portland as an Industrial Engineer. He recently worked for Emhart Corporation.

Douglas Peltzer, R & D, was formerly with General Electric. He joins the R & D group as an Engineer.

Dr. Tseyerlein Fritz-Werner is new Section Head of R & D's Packaging Development. He was formerly with Siemens AG, Munich Germany.

Gilbert Masters joined R & D as a Member of the Technical Working Staff working in array analytical studies. He was most recently a research assistant at Stanford University.

Richard Aldrich has assumed the position of Senior Engineer at R & D. He formerly worked with Philco-Ford.

Douglas Schleif has been appointed Field Service Engineer for Instrumentation's line of semiconductor test systems. He will be working in the northeastern portion of the United States. He was previously with Lockheed Missile and Space Company.

Ronald Smith joined Semiconductor as a Sales Engineer. He previously worked for one of Fairchild's representatives, Hyer Electronics.

Moving Up

Linda Cartledge is new secretary for the Computer Programs section of Computer Marketing. Before starting to work for Mel Snyder, Linda was a Senior Clerk in Distributor Sales.

Vel Gale was promoted from Senior Clerk to Expediter in Incoming Inspection at Mountain View.

Jim Kennedy will be taking over the Univac Complex as Computer Sales Engineer in Minneapolis. He was formerly Sales Liaison Engineer.

Konrad Herman was named Controller of the Hong Kong facility. With Fairchild over five years, his most recent assignment was Controller of Semikor, Ltd., in Seoul.

Leadwire

Vol. 9, No. 8

Published by and for
Employees of Fairchild
Semiconductor/Instrumentation

Mountain View - Palo Alto -
San Rafael - Hong Kong -
South Portland, Maine -
Shiprock, N.M. - Croydon,
Australia - Ontario, Canada -
Tijuana, Mexico

Editor: Judy Horst

Art Direction: Mark Gorse

Photographer: Ron Turner

Reporters:

MOUNTAIN VIEW—Carolyn Delgadillo, Marge Killian, Wes Cox, Lois Eagleston, Nellie Covington, Ginger Tygret, Keith Thomson, Judy Dunkelberger, Iantha Kochsiek, Katie Guida, John Walsh, Edna Lockes, Missy Strebig, Val Knowles.

SAN RAFAEL—Cleatus Dunkley, Audrie Graxiola, Janet Marz, Margaret Queen, Hal Knopp, Cary Barford, Bobbie Talley, Anne Parfitt, Hilda Kaliczak.

RESEARCH & DEVELOPMENT—Dianne Cotton, Janet Jones, Terri Mead, Adrienne Juliano.

INSTRUMENTATION—Jack Ramon, Pat Campagna, Anna Ackerson, Walt Skruch, Jeanne Meyers, Pam Ott.

SOUTH PORTLAND—Linda Allen, Bob Tetrault.

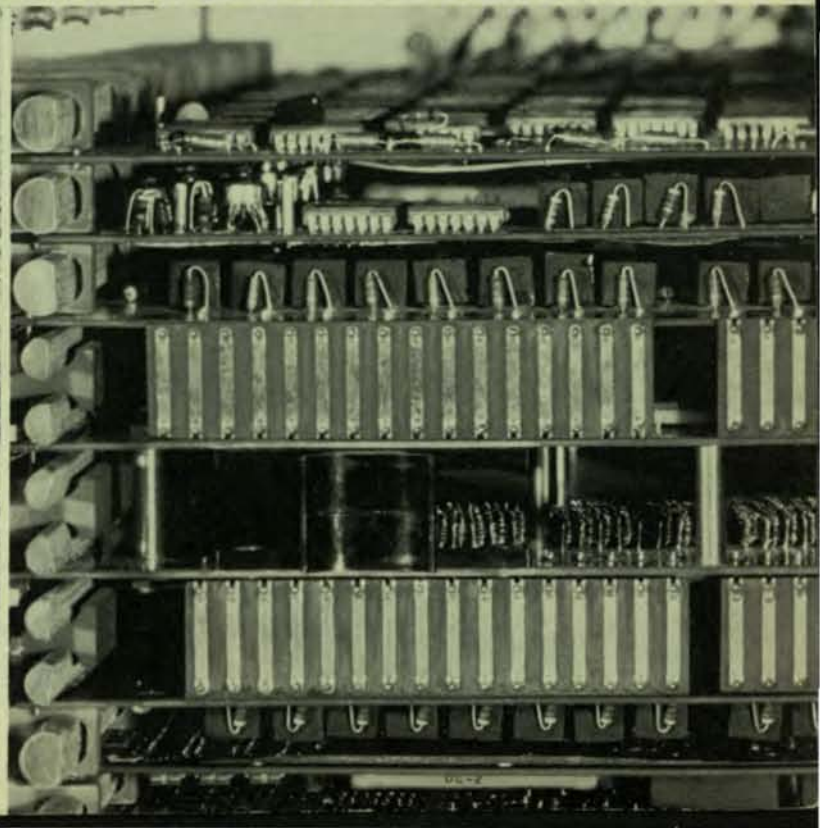
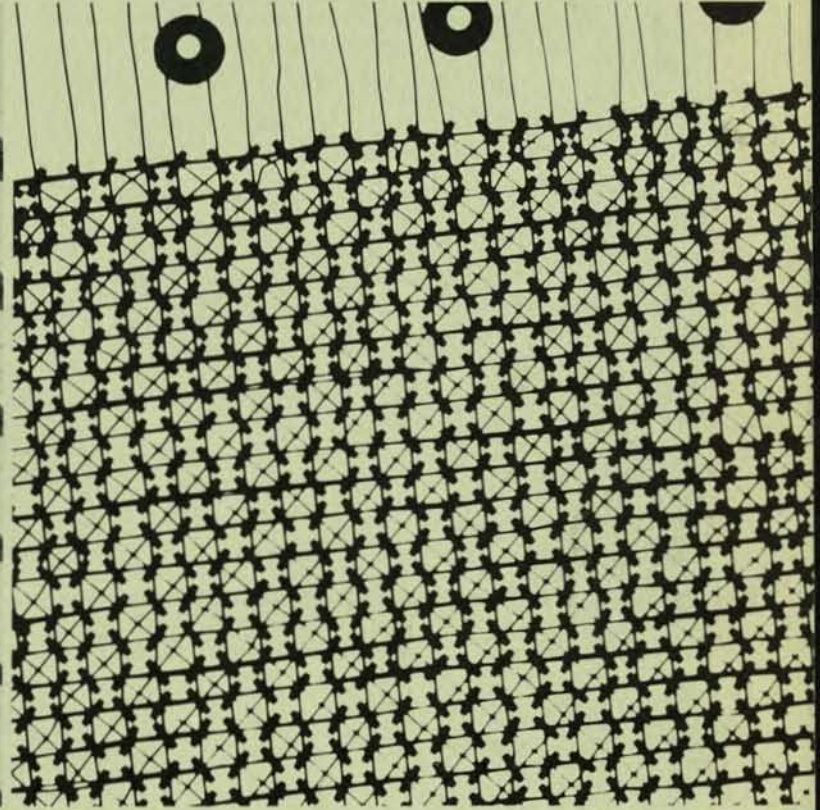
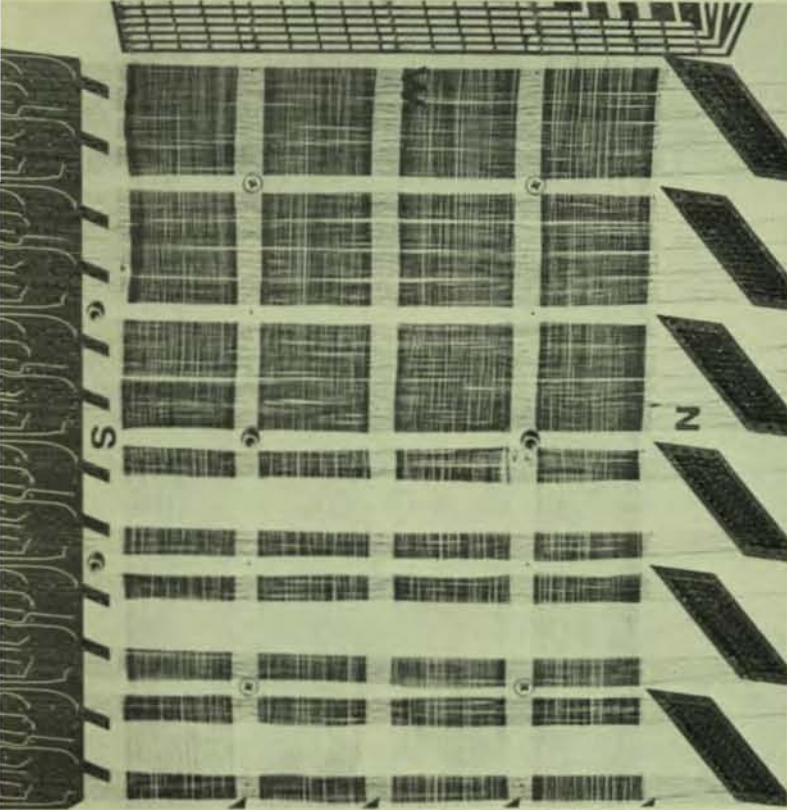
μ L is a registered trademark of Fairchild Semiconductor, a Division of Fairchild Camera and Instrument Corporation.

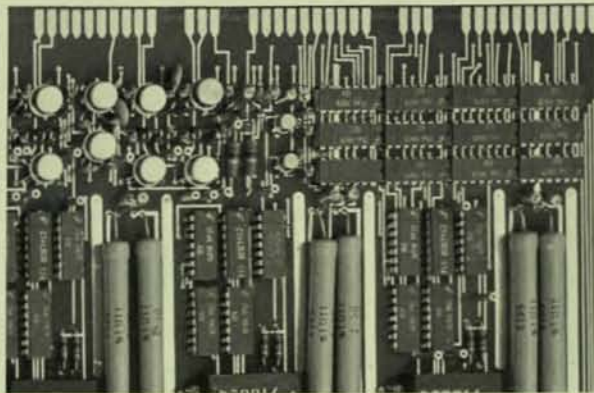
Copyright Fairchild Semiconductor Printed in U.S.A. 4000-381-77 95M

Cover: Mark Gorse's cover design depicts the flags of Australia and Canada, and the photo-essays in this month's Leadwire should bring you up to date on Semiconductor's operations in Croydon, Australia and Toronto, Canada.

Ginger Jenkins

LEADWIRE 9

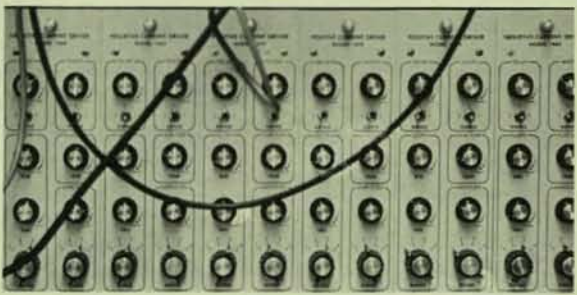




The human brain can store the inputs of a sixty-year lifetime, or 2.8×10^{20} "bits" of information.



Memory banks in the future will probably far exceed man's memory capacity.



The chief advantages of electronic memory systems are speed, high accuracy, and virtually unlimited capacities.



Fairchild Memory Products

Fairchild Memory Products might be a mere infant in the memory field, but no other newcomer has experienced such phenomenal success in so short a time.

Since November 1965, Fairchild Memory Products has emerged from a 13-member research and development staff to a top-notch production and marketing group of more than 350 people. Manufacturing activities are centered at Mountain View with additional support from a highly skilled staff in Hong Kong devoted to core-stringing activities.

Memory Products sales are expected to total more than \$2 million, doubling last year's record performance, and a five-year plan calls for an excess of \$20 million in sales during the fifth year of operation. This means Memory Product's marketing operation, both at home and abroad, will have to pile up sales records more impressive than ever before. And, part of their success rests on the advances being made in integrated circuit memory systems. IC memory systems (all semiconductor) were pioneered by Memory Products and promise to be the wave of the future. Another product line, core systems, uses ferrite cores and integrated circuits.

Memory Products manufactures cores for its own use and to meet customer specifications. Fully tested cores are strung and assembled into planes, and planes are further tested before assembly into stacks and memory systems. That, simply, is how it's done, but to look at the systems there's nothing more complicated than the maze of wiring and electronic components assembled into one of Memory Products' systems.

Three complete systems have been developed by Memory Products for the main memory, scratchpad memory, and buffer system applications. They are known as the Micro-PACER, MicroCELL, and MISER memories. Each is a state-of-the-art product employing Fairchild integrated circuits and advanced packaging features.

Additionally, Fairchild Memory Products produces the best memory component parts in the industry. These include a line of core driver modules, BD and 2.5D core planes and stacks, and even IC board arrays of memory cells complete with drivers and memory circuits.

Customers today include those in commercial, industrial, and military markets, and their numbers are expected to increase rapidly. In fact, the memory market is expected to grow at an even faster rate than the computer market due to the increased need for memory storage per computer. Both the nature and the amount of storage is expected to change considerably over the next ten years. And, Fairchild expects to be the forerunner in the new technologies of the future. To this end Memory Products is making heavy research and development expenditures.

Early in 1967, a formal research group was started. This staff is presently working on advanced techniques which may be considered unconventional by today's standards. The first of such developments is scheduled for showing at the Spring Joint Computer Conference in 1968. The second will probably miss this decade as it is a much more complex undertaking.

Yes, Memory Products is very much a part of this burgeoning industry, and it plans to be a much bigger part each year.



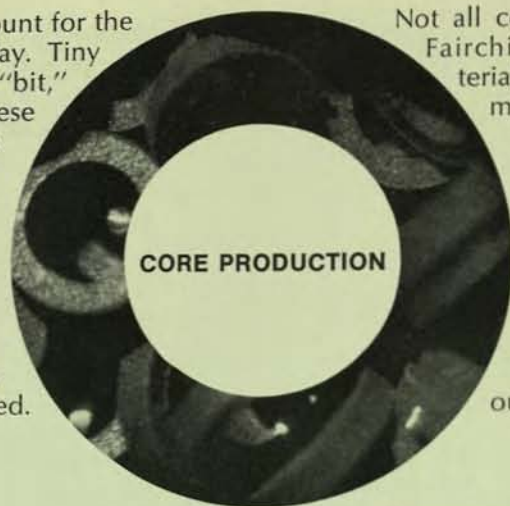
Memory Products serves customers throughout the world with the fastest memory systems available on the commercial market... and all of this has happened in just two short years of operation.



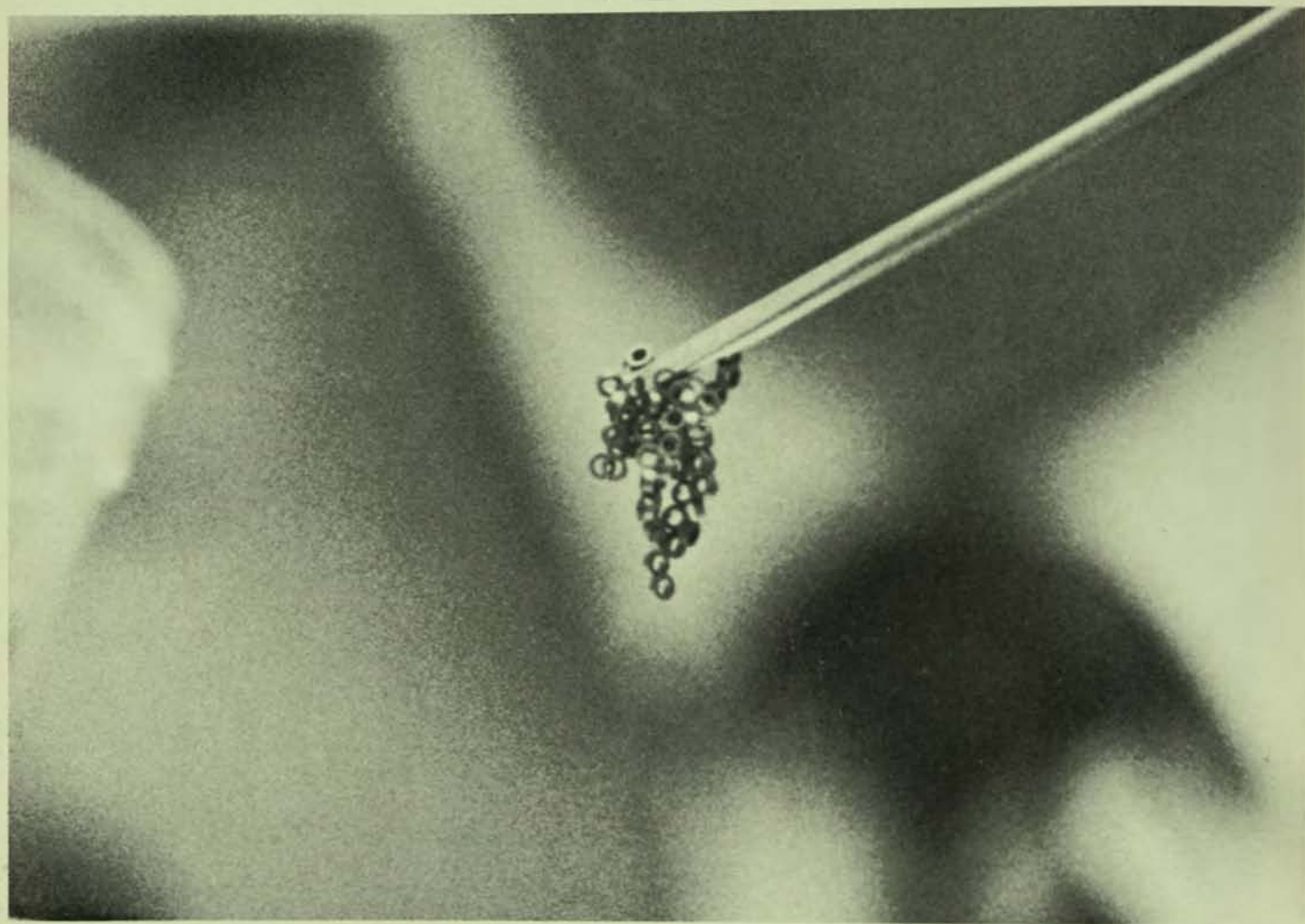
Fairchild Memory Products develops and produces magnetic memory components and electronic storage systems for use in a variety of information processing systems.



Core memory stacks and systems account for the majority of those manufactured today. Tiny ferrite cores (each of which stores one "bit," of information) are the very heart of these systems. Cores are doughnut-like in shape and are strung and assembled into planes, stacks, and eventually memory systems. To make cores, special materials are precisely weighed, compounded and mixed. Then they are pressed into round shapes measuring 22 to 80 mil. After a visual check, they are fired in automated ovens, and finally 100% tested.



Not all companies make their own cores, but Fairchild Memory Products' Magnetic Materials Department manufactures about a million cores a day. In operation for more than a year, the Magnetic Materials force numbers more than 50 people, and its operation provides Memory Products with a source of cores whenever cores are needed and at the high quality required. It is this dependable source that enables Memory Products to meet customer demands and continue to outpace its competitors.





You can make good things happen

It may be called the United Fund or the United Crusade, but whichever it is, it's time to give again this year. Your donations are needed now more than ever. You and your United Fund are a team — a team working for the betterment of your community through helping thousands of people in need. Your "fair share" contribution

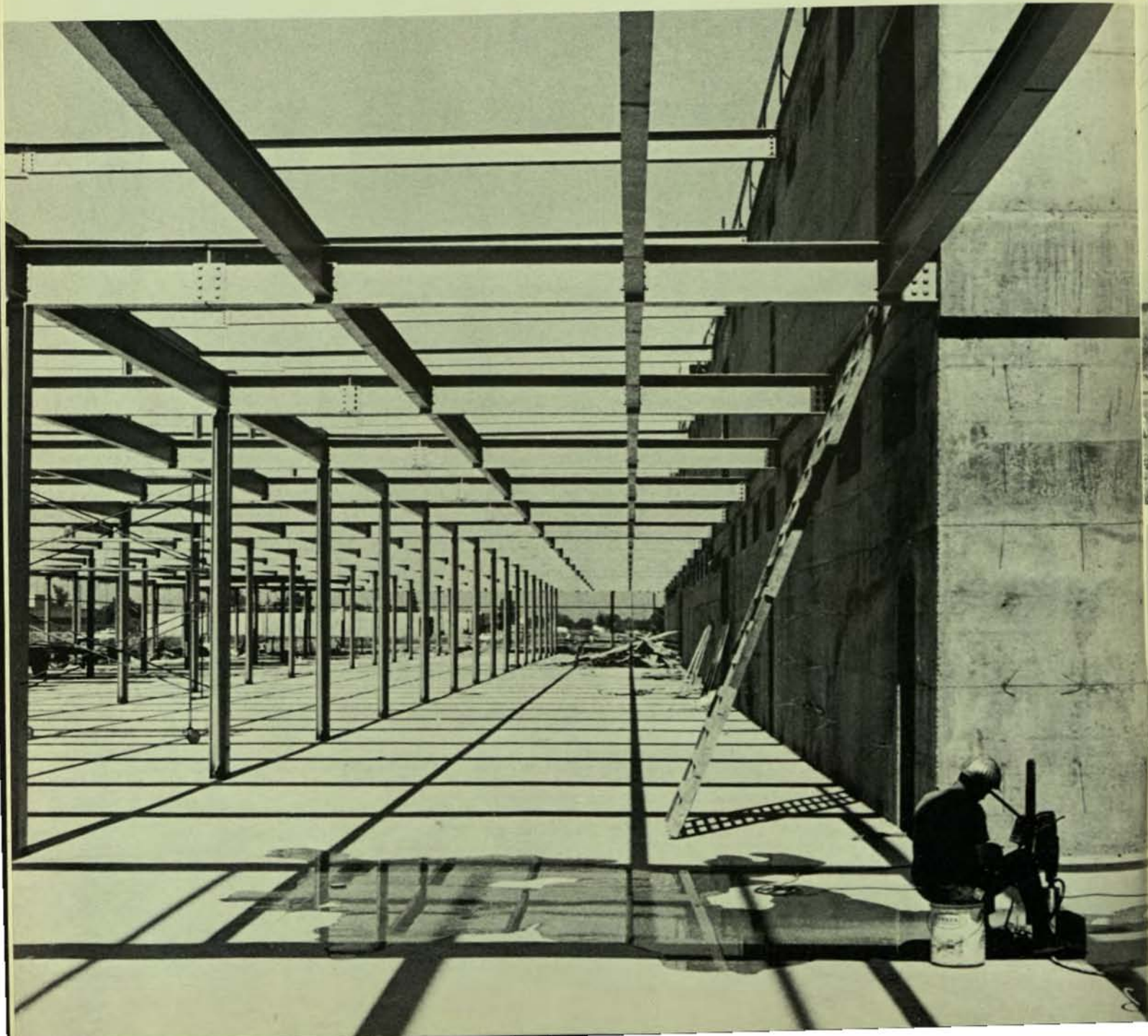
(the equivalent of one hour's pay per month) will aid the ill, the young, the bedridden, the disaster stricken, and the aged in your area. Many people are counting on you. Won't you pledge your "fair share" when it's time to give?

PROGRESS REPORT

How do you build a giant 342,000 square foot headquarters building? To begin with, it requires:

33,845 tons of concrete (that's enough for the building, parking garage, and sidewalks),
324 steel columns that stretch 4,536 linear feet,
5.9 miles of steel beams and minor beams,
and someone with a plan.

And, at 464 Ellis Street, site of Semiconductor Headquarters, everything's going according to plan. The site was first stripped of existing top soil; then excavation was begun. Concrete footings (large chunks of concrete that support the entire weight of the building) were poured, and concrete walls and columns below the first floor were poured. The first floor concrete slab (called



a waffle slab) was added, and a building began to emerge from what had been a big, gaping hole.


Progress is easy to watch now. The steel frame, the second floor and the roof surround a center structure called the core. The core is a bracing structure and will house the unchangeable facilities like the elevators, restrooms, and stairways. All other walls in the building will be non-bearing; that is, they will serve strictly as space dividers.


After the exterior framework is attached to the building, workmen will start completing the interior — ceilings, flooring, air conditioning, doorways, and painting. With these finishing touches, the building will be ready for occupancy.

And..... Instrumentation's just at that stage now. Its 156,000 square foot new headquarters in Sunnyvale will more than double Instrumentation's present facilities. Features include ample parking, lush landscaping, textured concrete exterior, wall panels with cast cut stone highlight panels at both lobby entrances and in the enclosed patio, concrete planter boxes at the front and side window areas, a spacious hot lunch cafeteria with meals prepared in the cafeteria, and cheerful interior color schemes throughout.

Moving begins for Instrumentation in late September. Semiconductor must wait until 1968, but that's right around the corner.



Semiconductor Headquarters 

Instrumentation Headquarters 



PICNICS 1967

(continued)

From Maine to Hong Kong, from gigantic picnics like South Portland's for 3500 people to those of department size at Mountain View or the boat-picnic for forty members of Hong Kong's Applications and Marketing staff, the 1967 Picnic season is slowly drawing to a close. The following photos attest to the variety of activities and the fun had at each picnic.

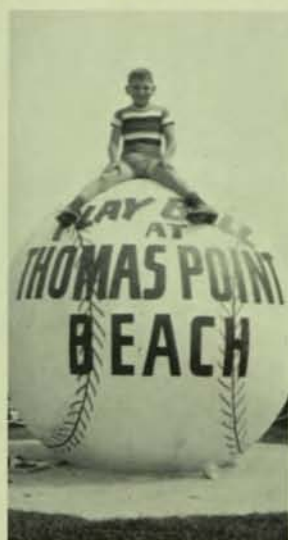
packaging



planning and distribution



south portland



instrumentation



applications/marketing Hong Kong



manufacturing engineering



aerospace and defense



Mountain View

Something new at Mountain View during August—a fashion show sponsored by the Rec Council. Two showings gave all shifts an opportunity to view a collection from Macy's of California modeled by employees. Day shift models included Jimi Ussery, Reba Clinkenbeard, Connie Evans, Sue Hofenfeld, Caroline Hughes, Joycelyn Cortilla, Ruth Carlson, Bonnie Bough, Sharon Spanelli, Beverly Fierro, Betty Childers, Nancy Jo Weaver, Janice White, Sandy Simpson, Merle Martin, Bobbie Kirlin, Don Massey, Doug Usher, and Bob Fox. Swing Shift models were Nancy Swann, Shani Pere, Sandra Garald, Lois Berthaiune, Carol Downs, Joyce Gordon, Val Nelson, Rosalie Hernandez, Gloria Robinson, Fernell Tyler, Pauline Smith, Dee Tharp, Mike Walton, Frank Paone, and Dennis Key.



Another Rec Council event to keep an eye out for is the First Annual Art Show and Contest. Details will be posted later.



Fairchild Semiconductor's Golf Tourney at Spring Valley drew employees from San Rafael, R & D, and Mountain View. In fact, Jim Daniel of San Rafael won the prize for the longest drive. Low gross winner was Lee Henderson (69); the booby prize went to George Lao (132). Closest to the pin on the four par-3's were Pete Solly, Rudy Gutierrez, Ben Anixter, and Ken Dieker.



Dick Hoffman and Dale Edgar of Memory Products Manufacturing Engineering treated Ellen Chew to a steak dinner recently. The reason? A job well done! Ellen, who's just been with the department since February, completed two perfect chassis wire boards for one of Memory's prime customers.



Many visitors tour the Mountain View facilities to get a first hand look at Semiconductor operations. Many are customers or financial analysts, and many are officials from governments throughout the world. Such was the case when Bob Chalom, Manager of Public Affairs, hosted Sun Ki Lee and Man Hee Lee from the Bureau of Heavy Industry, Ministry of Commerce and Industry of the Republic of Korea.

Gail Herbach, Junior Specialist Tester in Power Device Engineering, has been with Semiconductor since January 1959. Brother Mike was hired as a technician in Transistor/Diode Engineering in September 1966. Pam Bishop worked in the same department as Mike and had been there since October 1963. She met Mike and soon she was a Herbach, too. Now there's to be a little Herbach, so just before leaving her present job as secretary to Brent Knudsen, friends throughout the plant (with the help of Gail and Mike) surprised Pam with a baby shower.

From the Field

Four men were named Salesmen of the Month for June. From the Industrial Market, Bert Piaser was selected. According to Eastern Industrial Regional Sales Manager Vince Sabella, "It is very difficult to pinpoint a particular month that Bert excelled in salesmanship since he constantly shows tenacity in this area. Many of Bert's design efforts are either shot-gunned throughout the nation or directly routed to another state causing a sole source situation for Fairchild at the buyer's level. Bert's design efforts will contribute to a fair percent of Fairchild's 1968 sales dollars."



HERB CRISCITO

Herb Criscito was named Computer Salesman of the Month for recent successful negotiations with Univac for three million circuits at a total worth of approximately \$7 million. This is the largest single order ever released by Univac. His sales efforts, authorship of a number of technical papers, and previous work on the development of high frequency planar and planar epitaxial silicon transistors as well as the design and development of digital integrated circuits make him one of Fairchild's most outstanding salesmen.

Consumer Salesman of the Month was Paul Bartlett. Paul booked the first order ever received from Kodak Apparatus and Optical Division. The order was for three million epoxy units. Through Paul's efforts, Fairchild also received an order from Mowhawk Data Sciences for

over three million epoxy transistors and 80,000 integrated circuits.

Rounding out the Salesmen of the Month for June in the Military Market was Dan Hauer of the Los Angeles office.



PAUL BARTLETT



BERT PIASER

Instrumentation

Instrumentation's Rec Council continues to keep up the great work. Coming events include:

September	Bowling begins
September 23	Golf Tournament
September 30	Fall Dance, Plaza Lanes
October 7	Octoberfest Fall Picnic, Paul Masson Mountain Vineyards
October 14	Tennis Tournament
October	Falstaff Brewery Trip scheduled
November	Christmas Gift Sale begins
December 23	Christmas Dance, Cabaña
December	Children's Christmas Party



The new Tennis Club is getting in the swing of things. Officers are Vic Marquez, President; Donna Naton, Secretary/Treasurer; and Ralph Rasmussen, Vice President.



Ken Lowe, Systems SubAssembly Foreman, doubles as Marshall at Frontier Village, or at least he was roped into it at this year's picnic.

Canada



The Fairchild name was given a publicity boost each time the "Charlie Brown All-Stars" took the field. These "all-stars" were the Northern Electric Company team, and decked out in their "Charlie Brown" T-shirts provided by one of the team's sponsors, the Fairchild Canada marketing group, they competed in a Canadian Softball League. Northern Electric is a large OEM Fairchild customer.

Shiprock



Paul Driscoll, Shiprock Plant Manager, received one of ten Top Hat Awards for Fairchild Semiconductor from Sarah Jane Cunningham, President of the National Federation of Business and Professional Women's Clubs. The award was presented to Fairchild Semiconductor for its significant contribution toward advancing the status of employed women. In the past year and a half,

the Shiprock facility has expanded from fifty employees to roughly 550, and approximately 470 of these are Navajo women employed in clerical and administrative positions and as electronic assemblers. In addition to increasing overall numbers of women employees, the division's training and educational facilities were cited for better preparing women for work. Credit was also given Fairchild for raising the pay scales for women and for supporting legislation for equal pay. Other recipients of the award were Joseph A. Boyd, Jr., Dade County Commissioner (Fla.); Doyle Dane Bernbach (advertising firm); Margaret Hickey, Public Affairs Editor, *Ladies Home Journal*; John Hancock Mutual Life Insurance Company; Dr. William Edgar Park, President of Simmons College; Sylvia Porter, syndicated columnist; Jayne Baker Spain, President of Alvey-Ferguson Operations of Litton Industries; Valley National Bank, Phoenix; Woodward & Lothrop, Washington, D. C.



Paul Driscoll is on the other end of the award ceremony this time as he presents a letter of commendation to Jessie M. Lee for her one year of perfect attendance at work. Jessie is a second shift material handler in the Die Fab area.

San Rafael

San Rafael's Good Housekeeping Safety Committee has struck again, and August's winner is Standard Products. August's loser was Modules. Members of the committee which select the cleanest and messiest areas in the plant are Jack Higgins, chairman; Clara Penders, Marietta Bowman, Cleatus Dunkley, Nadia Post, and Evelyn Kim. Previous winners were Fab II (June) and Special Products (July), and winners of the "Pig Pen" award were P. C. Finish (June) and Scheduling (July).





Winners in this year's Golf Tournament played at San Geronimo were Dave Marriott (low net), Bruce Mack (2nd low gross), George Miller (2nd low net), and Buck Snyder (low gross).

After 20 of 35 scheduled games, San Rafael's softball team has five ballplayers with averages well over the .400 mark. Bruce Mack is batting .475; Hal Knopp, .471; Herm Martin, .464; Jim Smith, .457; and Al Danks, .410. This strong hitting is reflected in some scoring records the team set against the San Rafael Jaycees. The team scored 24 runs in a seven inning game and 10 runs in a single inning while limiting the Jaycees to only 6 runs for the whole game. Added to the list of recent injuries was Karel Svoboda. He received a broken collarbone in a game at San Quentin when a 300-pound inmate collided with him at home plate. The team is scheduled to play in a double elimination tourney beginning September 23rd.

The Kelp Explorers, San Rafael's skin diving club, elected Karel Svoboda its new President. Karel replaces outgoing President Jack Brewer. Jean Annis consented to serve a second term as Secretary/Treasurer. The next event planned by the club is an overnight weekend in Monterey.



Karel Svoboda's skin diving exploits have been written and told before. His latest with Bill Irons, Bert McNamara, George Parrish, and ex-Fairchilder Cliff Heberlein was to Santa Catalina . . . the island of "abalone and octopus." The most popular activity this time was shark hunting. Underwater shotguns designed by Bill and Karel caught several large Blue sharks. George Parrish created some excitement when he discovered some

mysterious bones and a rusty old rifle which was fully loaded. The rifle apparently had been uncovered by wild boars which had been digging around the camp during the night. The divers surmised the bones may have been those of a hunter who had fallen from a nearby cliff, or they might have belonged to a victim of foul play. Needless to say, the "rifle and bone" mystery must wait until next year when the group expects to return and uncover more clues.

South Portland



South Portland employees danced the night away on their second annual bay cruise. Nearly 250 persons attended each of two cruises held July 17th and 23rd.



South Portland held a double celebration marking the facility's fifth year of operation and the opening of the plant's new cafeteria. A free buffet-style luncheon was provided for all three shifts. Dignitaries visiting the plant that day were Richard Wolf and George Garrett of the Chamber of Commerce; Samuel Hinds, President of South Portland's City Council; Carlton Lane, Chairman of the Area Development Commission; and Bernal Allen, South Portland's City Manager.



tendance record in her five years. Plant Manager Jack Magarian (far left) made the presentations as he did to another five-year man, Gene LeDuc. All of those receiving the awards are employees hired when the plant located in South Portland five years ago.



Sept./5yr. Service Awards

Dan Martin	MV	Dave Myers	MV
Jean Vance	SR	Sylvia Durham	SR
Alvestine Magee	SR	Harold Grant	SP
Thomas Peardon	MV	Edmond Beaman	MV
Bobby Sudduth	INSTR	Patricia Decker	MV
Thomas Mills	MV	Jean Balzan	SR
Joseph Madjerac	SP	Patricia Henckel	SP
Edith Beem	MV	Bobbie Coleman	MV
Donna Hughes	MV	Morey Martin	R&D
Katherine Conley	SP	Steve Fierro	MV
Zenaida De Vera	MV	Shirley Hockstaff	MV
Nell Gainer	SR	Flavio Valiente	INSTR
Jim Reynolds	MV	Marshall Cox	MV
Len Ornik	MV	Ross Tucker	R&D
Heinz Eggers	SR	Barbara Hunt	SP
Norma Guidry	MV	Madeline Burke	MV
Desmond Fitzgerald	R&D	Adriaan Melger	R&D
Geneva Smith	SP	Billie Jinter	SR
Ruby Oliver	MV		



FIVE-YEAR CELEBRATIONS



Plant Manager Paul Driscoll congratulates Rich Cornelier and Joe Hulboy as both men receive their five-year service awards. These were the first five-year awards ever presented at Shiprock, though others on the staff have received five-year awards before coming to Shiprock.

James Wentworth, Marjorie Build, Anne Hagan, Rose Stephenson, David Symons, Michael Morrisette, Kenneth Taylor, Ray Malatesta, John Thompson, Donald Blanchard, and Robert Meyer are among the first employees at South Portland to receive their five-year service awards. Rose Stephenson also sports a perfect at-



Polly Mulligan was surprised by cake, coffee, and corsage the day she received her five-year service award. Polly is a member of the Small Instruments group at Instrumentation.



Dolores Cannon of IC Production Control at Mountain View cut the cake at her five-year celebration and also enjoyed her anniversary day at the luncheon given by friends.

New Faces

Jack Ayre joined Fairchild Semiconductor as Information Services Writer for Marketing Services at Mountain View. He formerly was Publications Editor at California State College.

Ken Dieker was named Administrator for the Marketing Department. He was with Air Products as Western Regional Manager before joining Fairchild Semiconductor.

Sam Fajardo joins the Aerospace and Defense group as Production Supervisor. He previously worked for Signetics.

Ed Ferrell, formerly the Director of Marketing for Stewart Warner Semiconductor, joins Fairchild as Product Marketing Manager for NPN Transistors.

Jim Kemp joined Instrumentation as Production Scheduling Supervisor. He was previously with Bourns Incorporated of Riverside, California.

Hank Moniz joined the Systems Division at Instrumentation as Industrial Engineering Manager. He previously worked as a Senior Industrial Engineer at Lenkurt Electric.

Tom Popek is a new Operations Control Analyst in the Planning and Distribution group at Mountain View. He received his Masters degree from Sloan's School of Management at M.I.T.

Jerry Prawl joined the Semiconductor Division as Sales Liaison Engineer. He was formerly with Crocker Citizens National Bank.

Doug Seitz, formerly with Bourns Incorporated as an Assistant Foreman and Production Planner, is now Material Planner at Instrumentation.

Norman Steinbach joined Instrumentation as an Industrial Engineer. Before coming to Fairchild, Norm worked for Lenkurt Electric.

Moving Up

Frank Burge has been promoted to National Sales Manager for Systems Marketing at Instrumentation.

Vince DeLellis was Senior Engineer in Microwave Manufacturing before his recent promotion to Section Head for the Microwave Prototype Section.

Larry Gildea is now the Supervisor of Systems Planning at Instrumentation. He was previously Supervisor of Material Distribution Control.

Len Gilmore, formerly National Sales Manager, has been appointed Inter-Divisional Marketing Manager for Instrumentation.

Stan Goobich has been promoted to Sales Promotion Manager for Marketing Services at Mountain View. He was formerly Assistant Advertising Manager.

Pete Hepburn moved up from Production Control Engineer at Instrumentation to Supervisor of Systems Production and Material Control.

Jim Kennedy was named the newest member of the Central Computer Sales team. He will be directing Fairchild's sales efforts at the Univac complex in Roseville, Minnesota. Most recently, Jim was a Product Marketing Engineer in PNP Marketing.

Dick Martin has been promoted from Product Marketing Manager for NPN Transistors to Manager, Product Support Department, Discrete Devices.

Larry Phillips moved up to Production Supervisor at Aerospace and Defense Products at Mountain View. He was previously a technician in the Materials Section.

Lu Ross was appointed Manager of Manufacturing for Memory Products.

E. C. Watson was appointed Manager of Planning and Services for the New Products Group at Mountain View.



LEADWIRE'S PHOTO CONTEST

Leadwire

Vol. 9, No. 9

Published by and for
Employees of Fairchild
Semiconductor/Instrumentation

Mountain View - Palo Alto -
San Rafael - Hong Kong -
South Portland, Maine -
Shiprock, N.M. - Croydon,
Australia - Ontario, Canada -
Tijuana, Mexico - Seoul, Korea

Editor: Judy Horst

Art Direction: Mark Gorse

Photographer: Ron Turner

Reporters:

MOUNTAIN VIEW—Carolyn Delgadillo, Marge Killian, Wes Cox, Lois Eagleston, Nellie Covington, Ginger Tygret, Keith Thomson, Judy Dunkelberger, Iantha Kochsiek, Katie Guida, John Walsh, Edna Lockes, Missy Strebis, Val Knowles, Barbara Horst, Loann Stoats, Chris Squires.

SAN RAFAEL—Cleatus Dunkley, Audrie Graxiola, Janet Marz, Margaret Queen, Hal Knopp, Cary Barford, Bobbie Talley, Anne Parfitt, Hilda Kaliczak.

RESEARCH & DEVELOPMENT—Dianne Cotton, Janet Jones, Terri Mead, Adrienne Juliano.

INSTRUMENTATION — Jack Ramon, Pat Campagna, Anna Ackerson, Walt Skruch, Jeanne Meyers.

SOUTH PORTLAND — Linda Allen, Bob Tetrault.

μ L is a registered trademark of Fairchild Semiconductor, a Division of Fairchild Camera and Instrument Corporation.

Copyright Fairchild Semiconductor Printed in U.S.A. 4000-441-87 9.5M.

The Cover: This month's cover represents the essential ingredients of Fairchild Memory Products—core production, memory component parts, completed systems (the fastest available on the commercial market), and the more than 350 people located in Hong Kong and Mountain View producing quality memory products.

Grigw Jenkins

IN 10 YEARS



Fairchild Semiconductor waded into the semiconductor business ten years ago. The official date was October 16, 1957, though a research effort had been launched long before that by eight scientists and engineers working in a Palo Alto garage attached to Vic Grinich's house. Their discovery of the Planar* process would permit economic volume manufacturing of transistors, diodes, and microcircuits of unequalled reliability. But that's jumping ahead of the story. First they needed financial backing, and Fairchild Camera and Instrument was willing to make the investment. Backed by FCI, they moved into larger facilities at 844 Charleston Road (until just recently it has served as one of Instrumentation's locations). Though a fledgling operation, the company got its first big boost in January 1958 when IBM placed the first order for silicon transistors—100 of them. Production hasn't

stopped since, and of course, today, Fairchild Semiconductor is one of the world's largest suppliers of silicon semiconductor devices.

Today, four of those first eight men are still hard at work for Fairchild. The initial group included Dr. Robert Noyce, group vice president of FCI; Dr. Grinich, general manager of Instrumentation; Dr. Gordon Moore, director of Research and Development; Julie Blank, facilities manager. Additionally their first employee, a technician named Murray Siegel, is now head of Industrial Applications.

Today, also, the Semiconductor division numbers more than 13,000 people located in Hong Kong, Australia, the Republic of Korea, Mexico, Canada, Europe and the United States . . . a reality that has far surpassed the wildest imaginations of eight young men working in a converted garage.



Fairchild Power

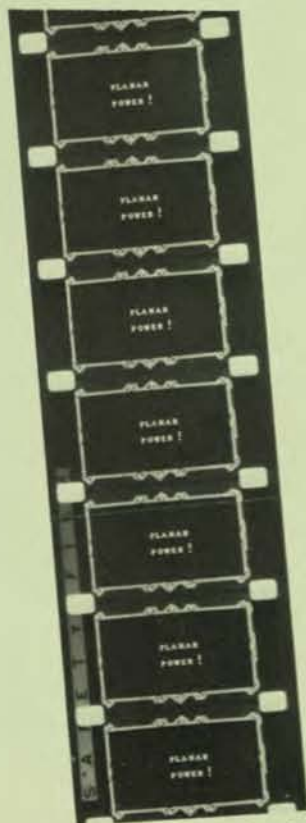
Arab Power? Peanut Butter Power? Flower Power? No! FAIRCHILD POWER! And to explain it to Fairchild's salesforce Jan Black and Tom Ciochetti designed a sight and sound spectacular on Fairchild Power—facilities, technology, capabilities and new power products. □ Jan and Tom, Product Marketing Managers for Conventional and RF/Microwave Power devices, and the rest of their traveling squad (Bob Reber, Manufacturing Manager—Large Geometry Power; Dick Gifford, Senior Product Engineer; Herb Sosnick, Marketing Services) presented fast-moving four-hour seminars in six cities across the U.S. The road show opened in Palo Alto August 14th, then moved to Los Angeles, Fort Lauderdale, New York, Wakefield, and closed in Chicago on August 24th. □ More than 275 field sales engineers, Fairchild distributor personnel, and regional managers attended this new approach in creating marketing awareness. Each meeting was designed as a refresher course on the power devices Fairchild Semiconductor currently manufactures and applications using these devices. The traveling group was aided by some 125 slides, a five-minute 16mm movie, samples, and brochures on conventional power transistors (both amplifier and switching types) and RF power and microwave transistors. □ Each seminar started with a written quiz to test the sales group's current awareness of power devices and applications. High scorers were Hank Carbajal—Military (Palo Alto); Dave

Okamoto—Military (Los Angeles); Harry Neil—Military (Fort Lauderdale); Scott Brown—Industrial (Wakefield); John Alfieri—Military (Los Angeles); Tom Murph—Government Agency Sales and Hal Piper—Canadian Sales (Chicago) □ Following the initial quiz was a five-minute movie, "The Birth of a Technology," created by Dick Steinheimer and Ron Turner, Marketing Services photographers. Starring in the old-time melodrama were some of Mountain View's Power personalities like Gary Parker, John Barnes, Janice Chapman, Gary Richter, William Bryan, Tom Ciochetti and the ever-popular Max Chancellor. □ The traveling team then wound up the seminar with a detailed discussion of the Power market, customers, new products, applications, and manufacturing. All sales engineers were given Power Transistor Sample Kits designed for their specific markets, samples to use for customer demonstrations, manuals, sales aids and a pocket-size V-switch tester designed and manufactured by the RF power applications group spearheaded by Murlin Vellequette, Bill Bechtold, and Will Alexander.



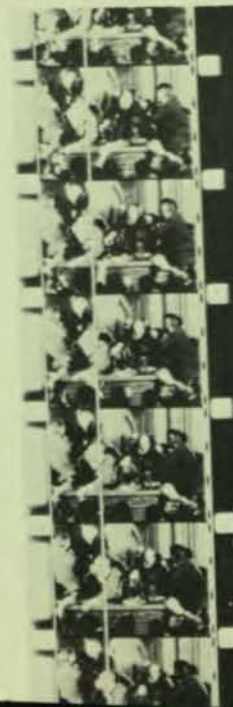
ROAAAAR

(The haunting refrain "Ain't She Sweet" played on an old-time rickety piano.)



From these humble surroundings a new technology is born.

Management's decision to go ahead with the Power Project.



Now to develop reliability statistics. Ee-gads! This device has passed the S. P. test! (The train flattened it, but it still works.) Let's rush it to the market.

One of the highlights of the promotion was the distribution of a 26-page Power Transistor Training Manual, the first of its kind. It included a four-part quiz to be mailed to the Jan within a week after the meetings in order to qualify for cash prizes. First prize winner was Pete Onstad (Military-Minneapolis); second prize winners were Bob Fockelmann (Military-Dallas) and Dan Hauer (Military-Los Angeles); and third prize winners were Barry Fidelman (Consumer-Chicago), Jack McIntosh (Consumer-Chicago), and Bert Piaser (Industrial-Wakefield).

Credit for putting this promotional package together also goes to Tom Moutoux, Power Applications; Rich Wills, Distribution Services; Scott Bryan, Fred Irvine, and Gunther Haller, all of Production Control, for supplying the sample units.

9000 miles of travel and all the planning and preparation are beginning to pay off. People are beginning to talk about Fairchild Power. Herb Wallak of the Jericho sales office will vouch for that.



But, what's this? Our fearless salesman is in mortal danger!



It's the $\frac{3}{4} * \frac{1}{2} ? \%$ ® Motorola Bandits!



They've tied our salesman to the railroad tracks, skipped with the loot, and left him to the S. P. Will he pass the test?



Dare we think about his fate? Tune in tomorrow when Dick Steinheimer, ace movie maker, unravels the second reel.

Fairchild Semiconductor as part of Fairchild Camera and Instrument

In 1957 the group of scientists led by Dr. Robert Noyce developed a method of mass producing transistors using a chemical-etch system called the "mesa process." Enormous business potential existed, but financial backing was needed to proceed. Fairchild Camera and Instrument Corporation of Syosset, Long Island, was willing to invest, and Fairchild Semiconductor was born.

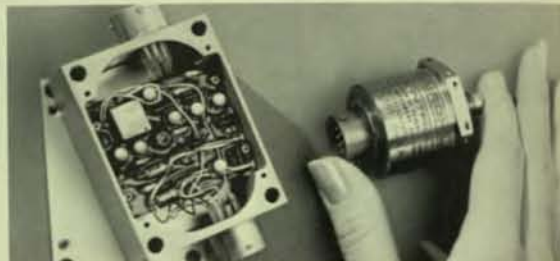
CABLE

is headquartered in Joplin, Missouri, and produces a variety of precision cables and sophisticated wiring systems for space and defense applications. Recently added to its product line is a series of flexible printed, or etched, circuits.



CONTROLS

is located in Hicksville, Long Island. This division produces a line of precision components primarily for military and space programs—potentiometers, pressure sensors, and transducers.



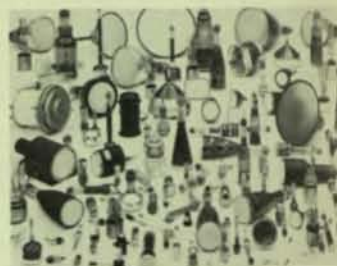
DAVIDSON

is located in Commack, Long Island, and is primarily concerned with producing a full line of offset duplicators, presses and attachments for inplant printing departments, reproduction departments, office and commercial printers.



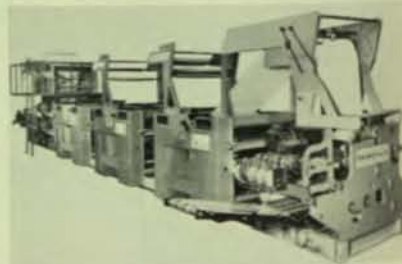
ELECTRON TUBES & INSTRUMENT

is headquartered in Clifton, New Jersey. This division is the leader in the design and production of a variety of cathode-ray, storage, photomultiplier and power tubes.



GRAPHIC EQUIPMENT

operations are centered in Plainview, Long Island. Products include a line of automated printing equipment, phototypesetting machines, web offset presses, electronic color scanning and correction devices, and electronic engravers.



INDUSTRIAL PRODUCTS

produces probably the world's best 8mm sound movie camera. Located in Plainview, Long Island, this group manufactures aircraft and audio visual products including Flight Data Recorders, Cockpit Voice Recorders, and automatic cartridge film projectors for use in schools, sales promotion or public relations.



a subsidiary of FCI. In 1961 Semiconductor became a division of Fairchild Camera. Today there are ten distinct companies in the FCI family. When combined with two subsidiaries, they produce a variety of industrial products which produced sales of more than \$227 million in 1966. This, then, is Fairchild Camera and Instrument.

INSTRUMENTATION



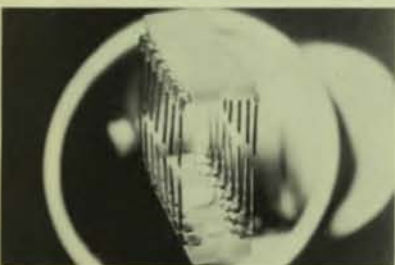
located in Mountain View, California, manufactures semiconductor test systems, integrated circuit digital voltmeters, and amplifiers for the test and measurement market.

PRECISION METAL PRODUCTS



can be found in El Cajon, California. Its prime product is the sale and lease of a high velocity forming machine known as CEFF (controlled energy flow forming). This division also makes custom hardware items for aerospace projects like vacuum jacketed fuel lines for the first and second stages of the Saturn V Lunar launch vehicles.

SEMICONDUCTOR



operations are centered in Mountain View, California, and are concerned mainly with the development and production of discrete devices (transistors and diodes) and integrated circuits.

SPACE AND DEFENSE



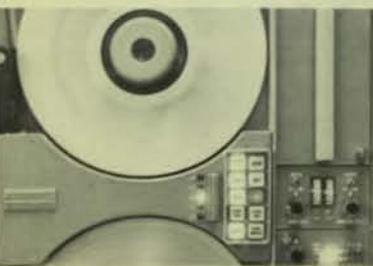
is located at Syosset, Long Island. Within this division are concentrated the Corporation's major military and aerospace systems programs. These cover advanced photographic and electronic systems for aerospace reconnaissance and mapping, visual data annotation, correlation, processing, display, interpretation, reduction, storage and retrieval.

ELECTRO-METRICS



(a subsidiary) is headquartered in Amsterdam, New York. A functional entity of the Instrumentation Division, this group manufactures radio frequency interference equipment and microwave components.

WINSTON RESEARCH CORPORATION



(a subsidiary) is located in Los Angeles, and is part of the instrumentation video tape recorder industry. Products include a variety of recorder/reproducers and new developments in magnetic recording heads.



SGS-FAIRCHILD IN EUROPE
● COMPANY OF THE GROUP
■ FACTORY

The World of SGS



(Above MILANO, below FALKIRK)



The growing world of SGS-Fairchild is centered in Agrate (Milan), Italy, but it encompasses the whole of Europe and such countries as Israel, Finland, and South Africa. In fact, the growth and decisions of SGS affect even such far away places as Mountain View, California, center of the Fairchild Semiconductor world.

SGS (or Societa Generale Semiconduttori, SPA) is owned equally by Fairchild Semiconductor and two Italian firms (Olivetti and Telettra). It is the second largest semiconductor firm in Europe, accounting for about 10% of European semiconductor sales, and in 1966 SGS was our second largest customer. More than 4500 people work for SGS, and if the "Avis" adage is true, they will be "trying even harder" now that they are No. 2.

SGS serves five main marketing areas. SGS-Fairchild Ltd., a British company, is one of five SGS companies located in Europe. Headquartered in Aylesbury, Buckingham-

shire, and staffed by British personnel, the company is concerned with the development, production, application and marketing of Planar* semiconductor devices for the United Kingdom. Its newly completed factory in Falkirk, Scotland, operates much the same as any Fairchild Semiconductor facility, manufacturing the entire spectrum of Planar* devices.

In addition to the United Kingdom market, the North Eastern Region is served by SGS Fairchild AB of Stockholm which just completed its own factory at Marsta. This company serves Finland, Denmark and Norway.

Western Europe is covered by SGS-Fairchild SA of Paris which built a large factory in Rennes (Brittany). The company has sales offices and distributors in Belgium and Holland.

SGS-Fairchild GmbH of Stuttgart operates in Central Europe and is building a factory at Wasserburg (Bavaria)

*Planar is a patented Fairchild process.



(Above RENNES)



(Below SGS MOUNTAIN VIEW STAFF)

(Above MÄRSTA)



(Below FALKIRK)

(Above MILANO)

to meet the increasing demand of the German market. Distributors are based in Switzerland and Austria.

Southern Europe is covered by SGS of Milan which houses one of the largest SGS factories and laboratories at Agrate, Brianza, just outside Milan. Sales offices and distributors operate in Italy, Spain, Portugal, Greece, Israel and South Africa.

Although SGS companies are completely autonomous operations, they benefit by their link with each other and with Fairchild Semiconductor. Technological advances, application developments, and marketing innovations are shared jointly. SGS personnel at Mountain View work with Semiconductor's production people ironing out manufacturing problems and with marketing people on pricing, purchases, and deliveries.

This, then, is the world of SGS-Fairchild today, and though Europe seems far away, the relationship of SGS and Fairchild Semiconductor makes it a very small world.



POTPOURRI

VOLUME 1 NO. 1

FAIRCHILD SEMICONDUCTOR

10 YEAR REPORT

1957

Fairchild Semiconductor Corporation begins in October.

First employees hired.

Operation locates at 844 Charleston Road.

1958

First product, the NPN double-diffused silicon mesa transistor, is introduced.

First big break comes when IBM places first order for silicon transistors—100 of them.

\$1 million plant is planned for Mountain View.

1959

First **Leadwire** appears on the newsstands in July, though it was nameless. Circulation: almost 500.

Maurine Christensen of Production Control wins contest to name company newspaper. **Leadwire** chosen from 110 entries.

\$750,000 addition is planned for Mountain View facility, doubling its size.

New \$1 million plant is announced to be located in San Rafael.

Fairchild Camera and Instrument purchases Fairchild Semiconductor.

EDITORIAL

by R. N. Noyce

One Year Ago -

Usually comparisons are made on a five or ten year basis to show progress. At FSC, one short year has shown enormous changes!

One year ago, FSC had only 67 employees. The NPN transistor was moving from R & D to Pre-production, and manufacturing as such was just a gleam in the eye of our fledgling Manufacturing Department. Sales people were out convincing customers that we could make a transistor which was superior to anything available. We had

given 125 samples to customers to help convince them, and we had sold a grand total of 42 transistors. Our first advertisements were not to appear for another month. Still, plans were being drawn for a new plant, since everyone was confident that when potential users saw our transistors, we would need more space. And as you all have been keenly aware, we've been crowded for space even as the new plant has been built and equipped.

Everyone here has contributed to the tremendous changes of the past year. For those of you who have been here only a short time, as well as the "old-timers," there is plenty of opportunity to make important contributions to the future of our young company. Thus far the record is one of phenomenal success; even though we have set very high goals, each in turn has been exceeded. This is an achievement in which you should all take pride and satisfaction.

1960

First Fairchild planar transistor is introduced in January.

FSC announces it will market a full line of micrologic units.

Employee Credit Union opens, and Myra Landolfi elected to be its president.

Noon-time swims for employees are scheduled on Wednesdays from 12:15-12:45 at Mountain View's Union High School pool.

Fairchild Semiconductor acquires interest in SGS.

Loretta Hayes wins the Miss Semiconductor Contest.

Fairchild's family picnic at Adobe Creek Lodge draws nearly 2200 people. San Rafael's headcount shows almost 300 employees.

San Rafael holds first company picnic. Turnout numbers more than 600.

Several new items of test equipment are developed by the Instrumentation group and put into operation during the

summer—the Diode Tester for San Rafael, the Automatic Tester and Data Logger for the Autonetics Program, and the Type 4 Automatic Tester and Vibration Noise Monitor for the Autonetics Reliability Test Program.

1961

FSC transistors play an important role in the successful firing of the Minute Man ICBM fired from Cape Canaveral February 1st. Autonetics' contract manager praises the 30 girls on the Autonetics board assembly line for their contributions to the success of the firing. Approximately 1000 Fairchild transistors were in the guidance system of the missile.

Latest addition to the R&D library is "Analysis of Water" by F. H. Rainwater.

Fairchild introduces micrologic flip-flop in sample quantities at the International Radio and Electronics convention in New York.

The Final Seal girls on the Small Geometry line set a new record in yield quality for the week of February 13-19. The rate of loss is only one transistor for every 11,000 sealed. The girls include Aggie Myreholt, Maxine Oltrogge, Beverly De Los Santos, and Alice Long.

The Fairchild cafeteria in the new addition to the Whisman Road building is the most streamlined in the Bay Area.



Fairchild announces a series of high-frequency silicon industrial transistors, marking the company's official entry into the commercial and industrial markets.

It was the transistor plant's Accounting Department's men against the women in a baseball game that saw the women slaughter the men 19-14 (of course the fellas had to bat left-handed and could only count every other run).

Fairchild Semiconductor becomes a full-fledged division of Fairchild Camera and Instrument on May 31st.

San Rafael's women's softball team trounces the transistor team 14-2, but the gals on the transistor team recoup their loss by beating the San Rafael team 12-6.

SGS is set to manufacture and market Semiconductor products for the European market by virtue of Fairchild's 1/3 ownership of the Italian firm.

Instrumentation transfers out of the transistor plant as a separate, operating department.

The R&D Grinich team captures the interdepartmental volleyball tournament at this year's picnic. Stars are Rich Wills, Gary Mickleson, and Lloyd Perrier.

Construction begins on R&D's new home.

1962

When Col. John Glenn rocketed into orbit aboard his Friendship VII Mercury space capsule February 20th, he took with him a liberal sampling of Fairchild transistors and diodes. Fairchild devices were used in both the Atlas missile that hoisted him aloft and the Mercury capsule. In addition, many of the devices were used in the complex ground-support equipment.



Semiconductor punctuates its fifth anniversary with the announcement of a new 170,000 square foot, \$2 million building in Mountain View to house manufacturing and administrative facilities.

A totally new concept in TV is demonstrated at R & D's openhouse. It's Fairchild's all-silicon transistor TV, a product of the Applications Circuit group.

South Portland operation opens for business in July.

Fairchild Camera and Instrument sales top \$1 million in 1962.

1963

First transistors roll off South Portland's lines in January.

New 15-man fire brigade formed at San Rafael enlists help of Bill Irons, Earl Head, Vic Watson, and Pete Chiapetta.

"Semiconductor is now our largest division," John Carter, President of FCI, tells a meeting of Fairchild Semiconductor management.

Mountain View's women's bowling team bests 22 other teams in the National Industrial Recreation Association's February tournament. A star member of the team was Aggie Myreholt.

San Rafael schedules first employee art show.

Swing shift start-up is scheduled to begin in April for South Portland.

Fairchild picnics number four this year (Palo Alto-R & D, Mountain View, South Portland, and San Rafael), and some 6000 persons attended. It was R & D's first.

Hong Kong operation begins.

NPN Production wins the Intramural Softball League with a 10-1 record.

San Rafael's first birthday is feted at a celebration. Employees include more than 100 who were present three years ago when Diode moved into its Redwood Highway plant. The ceremony also honored nine women for outstanding performance. Included were Marilyn Buttke, operator of body paint machine, who recently set record for number of diodes processed in one shift; Marrieta Bowman, leading ten checker on the FD-6 line; Maxine Hamilton, final sealer on the standard product line holding the record for highest production in three-month period; Betty McDonald (now Luck), final sealer on FD-6 line for most production in three-month period; Lu Duer, die loader for most production in three-month's time.

1964

Fairchild introduces low-power microcircuits with reliability proven in over 29 million hours of operation.

The peninsula's basketball team tops Diode's.

John and Emilie Westhoff, San Rafael employees, are feted at a party to celebrate their becoming U. S. citizens on March 9th.

FSC wins near-million dollar order from Sperry Gyroscope for epitaxial micrologic elements in flat package. Size and weight reductions achieved through the use of microcircuits open the possibility of using the LORAN navigational system with a variety of tactical aircraft.

Semiconductor introduces three new NPN transistors for use in television sets.

More than 300 Semiconductor employees and guests are on hand for the Maine plant's first talent show and dance.



South Portland's open house draws some 2000 persons. Stay-at-homes also received an unexpected tour of the facility via WCAN-TV in Portland.

John Sentous is elected president of the Employee Recreation Council at Mountain View.

Fairchild Semiconductor makes a strong bid this May for an early share of the huge potential market for IC's in the commercial and industrial markets, introducing a line of IC's, specially designed for use in commercial computers, industrial control equipment, instrumentation, and test equipment at drastically lower prices than those currently charged for IC's in the military market.

A complete new family of reference and zener diodes manufactured by the planar process is introduced by Fairchild Semiconductor.

Fairchild Semiconductor opens new plant in South Yarra, Australia, to serve Australian markets. The present staff is less than 50, but it is expected to reach 100 by the end of 1964.

Frontage Road becomes Fairchild Drive as the result of a six-month campaign by Marketing Services personnel.

South Portland employees celebrate their second anniversary with traditional ice cream and cake on July 19th.

1500 attended South Portland's second family picnic.

FSC will have 302 five-year employees by the end of this year. 256 of them were hired in 1959. Dolly Rule will be the first woman at Diode to get her five-year pin, and Ann Bernardo of the Jericho sales office will be the first in field sales to receive her five-year award.

The Palo Alto facilities of Fairchild Space and Defense Systems become part of the Semiconductor division this October. The group will be located at 430 Fabian Way, across from the Instrumentation plant and will be attached to the Instrumentation department.

Instrumentation's IPS-1 Power Supply captures an award of excellence in the annual Industrial Design competition at Wescon.

R & D acquires its own recreation council.

Jack Ramon, Instrumentation, becomes the only great grandfather in the division with the birth of Loretta Anne Frydenlund on November 13th.

Steve Amman receives a \$100 check for gaining a patent disclosure on a Fairchild solid state digital voltmeter. His is Instrumentation's first patent disclosure.

The U. S. Patent Office declares Fairchild to be the owner of the "planar process" for manufacture of semiconductor devices. FCI is now the owner of 16 of the 17 claims contained in two patents covering the process.

Instrumentation ships record 7000 IC's in equipment during November. This and other figures of recent months makes Instrumentation the world's largest user of true integrated circuits in commercial equipment.

San Rafael celebrates five years of operation December 15th, paying tribute to employees completing five years of service in '64. Included were Dolly Rule, Bob Champagne, Al Desmond, George Compton, and Jack Larsen.

1965

South Portland is Semiconductor's second largest operation, now employing about 1000 people.

Concentrated Microwave production and marketing is established and Fairchild's first microwave transistor goes on display at the 1965 IEEE convention. The MT1038 represents Fairchild's entry into the very high performance microwave transistor market.

The Grissom-Young triumphant three-orbit Gemini flight was a source of pride to all America, but Fairchilders everywhere can take a special bow. Though it's impossible to know how

many Fairchild products were in the last space shot, more than 25,000 FSC devices were supplied to the Gemini program.



Assemblers at San Rafael are taking part in a unique training program on the use of test and measuring instruments. The program is conducted by Bob Busch and Jack Brewer.

Instrumentation becomes a separate division of Fairchild Camera and Instrument, and Tom Bay is named to be its general manager.

A new renegade club has been formed at Mountain View—the Fairchild Road Running Club started by Phil Lenihan, Dick Bader, Bob Skurko, and Mel Snyder in anticipation of running the "Fairchild Mile" July 3rd at Sunnyvale's Fremont High School. This is all part of the national "Run for Your Life" fitness program.

Shirley Johnstone is named first lady technician at Palo Alto Instrumentation.

The Navajo Indian Tribal Council ratifies a proposal by Fairchild Semiconductor to set up an operation on the northeast corner of the Navajo reservation. Temporary quarters supplied by the tribe are providing a limited operation, and 50 employees are learning assembly skills. Gregg Harrison is sent down the Shiprock to manage Semiconductor's newest operation.

Mariner 4, the space ship which transmitted the first closeups of the surface of Mars during its historic fly-by on July 15th carries 544 FSC "representatives." These were silicon transistors of an ultra-high reliability design.

Every American Gemini space shot has carried Fairchild devices.

The Communications department scores a real coup sending a message to affiliate SGS via the "Early Bird" communications satellite. The message was sent to the French office.

South Portland's 2300 employees and guests consume two tons of chicken, 5000 hotdogs, and 9000 cans of beer at this year's picnic.

1966

R&D plans to double its facilities by year-end with a 100,000 square foot addition.

San Rafael announces a new 12,000 square foot addition to its operation.

Instrumentation moves to 475 Ellis Street and celebrates with an anniversary open house.

The Hong Kong plant officially opens March 9th; 3500 employees are on hand for celebration.

Toronto group begins work in temporary quarters.

Dr. Noyce and Fairchild dignitaries fly to Croyden, Australia, to officiate at grand opening of the new Australian plant May 10th. There are approximately 100 employees in the Australian operation.

Shiprock employment nears 400 mark on its first anniversary.

Memory Products makes its debut to public at Spring Joint Computer Conference.

Tijuana operation, Electro-Mex, begins.

Fairchild Falcons sweep regionals, but have to settle for fourth place in world championship softball tourney.

Hong Kong's Epoxy Entertainment section completes the largest shipment ever made to a customer in a day—3,355,000 units.

Instrumentation establishes its own Recreation Council.

Howie Sharek is named top salesman of the year for 1966.

Shiprock float wins first place in the 43rd annual Northern Navajo Fair.

South Portland wins the 1966 Industrial Achievement Award given by the Maine State Chamber of Commerce.

South Portland establishes an employee credit union.



Marilyn Buttke continues to break records at San Rafael, marking 100,000 glass micro-diodes on the micro marker in just 6.7 hours. Shortly after that, she broke that record by 16,000 units.

New wafer fabrication area is added to South Portland operation.

Betty Little of San Rafael celebrates her fifth anniversary with the plant, gaining special recognition for her perfect attendance record during those five years.

1967

Tom Bay takes over the Semiconductor Division, and Vic Grinich will head the Instrumentation Division.

Instrumentation breaks ground for new 155,000 square foot plant to be located at 974 E. Arques in Sunnyvale.

Semiconductor branches out in the Far East with its new South Korean operation, Semikor, Ltd. More than 200 people are currently employed there.

Semiconductor breaks ground for new 342,000 square foot headquarters scheduled for completion in 1968. The site is 464 Ellis Street in Mountain View.

Toronto breaks ground for new facility.

Shiprock receives national Top Hat Award for its significant contribution toward advancing the status of employed women.

South Portland celebrates its fifth anniversary with gala party for employees. Rose Stephenson is honored for 5 year perfect attendance record.



Mountain View Recreation Council appoints an administrative advisor to supervise all recreational activities.

Eight final seal operators at Shiprock sealed 120,800 devices in one shift, a new divisional record.

Dr. Noyce named to board of directors of Fairchild Camera and Instrument.

Instrumentation holds fashion show for its employees, and Mountain View Rec Council follows with one of its own.

Semiconductor reorganizes along product lines. John Ready, Don Yost, and John Sentous are named Managers of Aerospace and Defense, Discrete Devices, and Integrated Circuits.

Fairchild Controls awarded a Zero Defects Participation Award from the Department of Defense in recognition of employee effort to improve and control product quality.

R & D's Chrome Masking group sets new record completing more than 2500 accepted chrome masks in one month's time.

Semiconductor contributions help construct a mobile Children's Center classroom for the Whisman School District in Mountain View.

Do You Remember...

When there were only two lappers and two slicers in Materials (MV).

When the place to go after work on Friday nights was Rupes.

When one of the pagers announced, "Anybody knowing anything about LIC, please call..."

When Dr. Noyce took all the employees into the cafeteria to tell them Fairchild had just sold its first dozen transistors. Dr. Noyce's Christmas speeches over the intercom.

When Jack Magarian and Dr. Noyce brought their children to the plant on Saturday mornings while their wives did the week's shopping.

When Systems Checkout (Instrumentation) worked all day Thanksgiving day to get out an order, only to have the delivery truck turn over as it was pulling in to make the delivery.

When the Shiprock float was only a car with four girls sitting on the back of it.

When the girls at San Rafael hand tinned 1500 units a day.

When there was just Fab 1.

When Christmas parties were just for employees.

When FSC made only two devices.

When you could find a parking place.

When John Sentous was an ordinary engineer.

When Roger Crosby got hit by a train while riding his bicycle to work.

When the goat ate through the main telephone line at Shiprock.

The day the girls burned their hairnets.

When the Mountain View cafeteria was where Fab 3 is now.

Stierlin Road.

When badge numbers were a status symbol.

When operators at San Rafael checked every unit coming off the line.

Paul Driscoll's first attempt at temperature cycling at San Rafatel, when the temperature was so high that all the units stuck together.

When Dave Heck auctioned his VW to the highest bidder in front of the Whisman Road building prior to leaving for his new assignment in Hong Kong.

Two girls made up the entire graveyard shift in Materials.

When a certain Materials foreman used to ride a Honda through the Sterlin Road plant.

When many of the Mountain View girls wore maternity dresses on April Fools day.

When there were only two crystal growers.

When Perry Holst dropped a Beta Ratio on the line in the testing area.

When Don Hart, Chuck Smith, Bill Stansberry, and several others dressed up as elves at the Christmas party.

When Don Yost tried to die attach.

When San Rafael marked 8-10,000 units a day on just two machines.

When everybody's coffee mug hung on the lunchroom wall, and every mug had its owner's name on it thanks to Dick Parker.

When the lead bonder held a small hand torch to cut the wire.

When Alice Murphy and Ida Price did all of the paging.

When everyone knew everyone else's name.

When Alice Washburn die attached.

When the guards would forget to shut off the intercom.

The "whistling bandit" of Stierlin Road.

When South Portland operated from a converted garage on Ocean Street.

When the Toronto group was split into two operations working on opposite sides of the city.

When Paul Hwoshinsky blew his bagpipes up and down the halls of Stierlin Road.

When girls working with chemicals on the line used to take showers at work before leaving for home.

When the lights used to go out at least twice a day while the cafeteria was being added to the Mountain View building.

When the test area at San Rafael held only two machines (a Booton Bridge and a Pinball machine).

When a lady hit a power pole knocking out all the electricity at Mountain View and everyone went home.

When many of the executives would help pack units to get a shipment out on time.

Yes, those were the good old days!



Questions

and Answers

What is a security analyst? These are the men and women who are responsible for analyzing the economics of a particular company or group of companies within a given industry. Their findings influence the shareholders and potential buyers of stock whether they are individuals, mutual funds, or large financial institutions such as insurance companies and banks. Quite often the financial house represented by the security analyst has "positions" in the stock market; in other words, it is a shareholder.

Any corporation which is publicly owned must present a good image to the stockholders who are the real owners of the company and to the people in the financial community who trade the stock. For this reason, a meeting with financial analysts, such as the one held at Semiconductor headquarters last month, is a very important part of a company's continuing financial relations program.

On September 11th, Fairchild Semiconductor hosted a group of sixty-two security analysts. These men and women represented many of the major investment firms, banks, and other financial organizations throughout the country. They flew in from New York, Boston, Chicago, and major financial centers, and assembled for a tour of Fairchild's Mountain View operation. Following the tour, they heard key members of the Division's management discuss the recently announced reorganization of Fairchild Semiconductor.

Leading off, General Manager Tom Bay outlined the theory behind the reorganization which he said was designed to provide better service for our customers by dividing the Division into three logical operating groups—integrated circuits, discrete components, and aerospace and defense products. He stressed the Division's wish to become more customer

service oriented and illustrated how "straight-through responsibility" would aid this goal.

John Sentous, recently appointed Director of Integrated Circuits, followed with a discussion of how the IC operation fits into the over-all reorganization. He pointed out that the objectives of his department are the same as for the Division as a whole. These are: customer satisfaction, competitive pricing, quality product, and technological leadership. He emphasized the dedication of the IC operation toward total customer satisfaction for both new products and for standard parts.



Don Yost, Director of Discrete Devices, discussed the role his department has in the reorganization. He noted that the consumer market output has increased for each of the last four months. He introduced a "merchandising" philosophy, and predicted that in 1968 discrete device

dollar volume would be up 10-15% and unit volume output would be up 100%. He stated that there would be a reduction in price, but manufacturing costs in diode and small signal devices will also be reduced. Objectives for his department were to establish integrated cost centers, create better control, more dynamic reaction to changes in demand, and spread decision making to the lowest possible levels.

John Ready, Director of Aerospace and Defense Products, discussed the evolution of his department. He explained that most of the devices manufactured by his people are "job-shop items"; that is, those that require specialized testing or special build for a customer requiring two or more chips in one package. Generally the volume is small. He explained that in the new organization hybrid devices have been transferred to the Aerospace group and that plans have been made to add an additional 100,000 square feet for the manufacture of A & D items by the end of 1969, bringing the total area to 170,000 square feet. He predicted that in 1968 Aerospace and Defense Products department sales will increase 31% over 1967.

Following the talks Group Vice President Dr. Robert Noyce moderated an informal question and answer period. Questions were answered either by Dr. Noyce, the speakers, or other members of the Division's management in the audience. Present from Fairchild Camera and Instrument were Richard Hodgson, President, and James More, Director of Information.

On their flights back to the financial centers of the nation, many of the analysts reviewed their notes and from them formed opinions on the investment potential of FCI. Back at their offices, information was channeled into reports aimed at prospective buyers of stock

Perhaps you received one



Fairchild Falcons are NO. 2 in The World

Fairchild's flyin' Falcons had to settle for second place in the recent World Championship Fast-Pitch Softball tournament held in Springfield, Missouri. The team lost the final game and the championship to the Aurora, Illinois, team 0-4.

The Falcons scored an easy 8-0 victory over the Canton, North Carolina, team and whipped Oxnard, California, 5-1 before settling an old score against last year's champs, Clearwater, Florida. The Falcons took that game 1-0, but dropped their first game of the double elimination tournament to Aurora 2-9. The Falcons came back, taking Clearwater 2-1 to earn a spot in the championship game but Aurora was too much for the team and clipped them 0-4 to end the contest.

Nevertheless, the Falcons placed pitcher Rich Balswick on the "All-Star" team, and manager Pat Campagna was named "Manager of the Year." Rich was also named "Most Valuable Player" of the tournament. Chuck Caldera (third baseman) and John Noce (catcher) were named to the second "All-Star" team. All three players will represent Fairchild in the upcoming "All-Star" game against the world champs, and Pat will manage the "All-Stars."

The Falcons had a great season, winning the Hayward League Championship, the Hayward Fourth of July tournament, and taking third place in the NorCal League and second in the Fresno tourney. Pat attributes their fine play this season to their "never-say-die" attitude. "The whole team played tremendous ball. Ray Phillips, last year's "All-American" star, kept the team alive, and our entire infield was just a few hits away from being "All-Americans." I said it last year and I'll say it again this year, 'we improved this year, but just wait 'til next year'."



Of Interest

A Fairchild Pin-up



Fairchild's "Special Forces" girl really rates with the armed forces in Vietnam. This is just one of several letters received:

I hope you will not mind my wasting a little of your time for some of us in Vietnam, but I have been reading the International edition of the Armed Forces Management magazine and was really taken with the photograph of the "Special Forces" girl in your advertisement in the July edition.

My request is that the men and myself assigned to the Staff, Commander Task Force 77/Commander Carrier Division FIVE would like to know who the model was and how we could go about corresponding with her so that we could obtain additional photographs. We have selected her as the "Girl of our Dreams."

We have gone so far as to throw away our "Playmate" pictures and earnestly seek your support in obtaining some photos of our "Dream Girl."

It's Nation-wide TV for FSC

A basic educational seminar on integrated circuit development and technology was presented on nationwide television October 11th. Produced by Fairchild Semiconductor, the 30-minute program was viewed on 33 stations at either 6:30 or 7:00 a.m. Titled, "A Briefing on Integrated Circuits," the film featured Dr. Harry Sello, Manager of Materials and Process Department of R&D, and Dr. James Angell, professor of electrical engineering at Stanford University and head of the university's solid-state electronics laboratory. The program was designed for business executives, engineers, and the average housewife who decided to have breakfast with Fairchild that morning with the hope that each could see the new vistas opened by integrated circuits.

Boeing Tests DT μ L

Independent life tests performed on Fairchild Semiconductor DT μ L microcircuits by Boeing have confirmed that the unit will function even under extreme temperature conditions. The test, part of Boeing's work with the Lunar Orbiter Flight Program, was started in December 1964 and to date has run over a million and a half device hours. Involved in the special Boeing tests were twenty-four 930 units, twenty-four 931 units, sixteen 932 units, and four 933 units. There have been no known failures.

Instrumentation

Instrumentation's B-League Softball team captured the

Mountain View League championship this year, smashing WSC, a division of Hewlett Packard, 12-0. The team also placed second in the Sunnyvale League.



The sport of soccer is being introduced to millions in the United States, but Flavio Valiente of Systems Production has claimed it as his favorite sport since he was seven. A native of El Salvador, Central America, he migrated to the United States in 1948 and has been an active player since his high school days in San Francisco where he was named "All-City." "All-Conference" for San Francisco City College, Flavio has to be content with managing due to an accident on the Bayshore Freeway. But he does that as well as he plays, for the "El Salvador Club" returned to the first division in 1966 after having won the second division championship. As vice president of the San Francisco Junior Soccer League, Flavio plans to work hard to see that his favorite sport becomes one of America's favorites.



Samantha Sullivan's birthday is becoming an annual celebration for all of Instrumentation's girls. Samantha, who is matron at Instrumentation, received a lovely pink sweater from the girls and was guest of honor at a huge party held in the cafeteria.

Olivia Martinez was surprised by a kitchen shower given by Tom Hayes' harness chassis line group. Helen Henard and Shirley Parker planned the affair. Olivia now has a plentiful supply of pot holders, dish towels, glasses, and many other kitchen items she's now putting to good use as the wife of Semiconductor's Bob Gray.

From the Field



Tony Macaluso



Bill Fockelmann



Warren Potter



Mel Marchbanks

Salesmen of the Month for July were Tony Macaluso (Industrial), Bill Fockelmann (Aerospace and Defense), Warren Potter (Consumer) and Mel Marchbanks (Computer).

Tony Macaluso of the Los Altos sales office typifies the ideal Fairchild professional salesman. He is responsible for more than 60 accounts and is booking business at a rate of more than \$1.3 million a year. Tony is constantly trying to broaden our product base with each of his customers, and as a result his sales represent virtually the entire Fairchild Semiconductor line. Additionally, many of Tony's good customers of today were at the relay and tube level just a year ago, which, according to regional sales manager John Richardson, dramatically emphasizes his ability to "make things happen."

Bill Fockelmann covers the Dallas, Texas, area for Aerospace and Defense. He's done an excellent job, booking more than \$1 million in 1967 already. This is really remarkable for being right in the back yard of Fairchild Semiconductor's largest competitor. Bill also teamed

with Ken Norvell of Norvell Associates to make Fairchild the top outside supplier of semiconductors at TI Apparatus.

Warren Potter, of the Elmwood Park office, known to customers and Fairchild people as "Buzz" rightfully earned his nickname as a man who hovers over his accounts like a buzzard. Buzz obtained an order for \$110,000 in VHF TV Tuner kits for shipment over a 60-day period. In addition he obtained an order to ship the new electron diode at a rate of 8,000 pieces a week. Having devoured his prey at that account he winged his way over to Zenith where he obtained an order for 100,000 Ua703 circuits, all of which have been shipped. He just booked an additional 150,000 Ua703's and has several other product programs going at his major accounts which will yield Fairchild very profitable dollars in 1968.

Mel Marchbanks received his "Salesman of the Month" plaque from regional manager, Ed Turney. He has been with Fairchild for about a year, and during this time has been responsible for such accounts as National Cash Register, Standard Computer, Raytheon Computer, and Electronic Memories. Mel was selected Computer Salesman of the Month for his continued strong sales effort, and more specifically for booking a CTL order in excess of \$1 million at Standard Computer, an up-and-coming company successfully taking nibbles at IBM's 7090 business.

Canada



The PGA had its Masters Tournament, Toronto had its Curling World Championship, and just recently Fairchild Semiconductor Canada Ltd. held its first annual Open Golf Tournament at the beautiful Trafalgar Golf and Country Club. Low gross honors went to Rick Woods who shot a blistering 82. Bill Simone was second low gross with an 85. Jim Cameron won low net honors with a 73, and Al Vindasius was second with a 76. Longest drive (290 yards) was hit by Hugh Kellock, and Gary Waddell placed his tee shot on the par 3 fourth hole three feet from the pin to win the "closest to the hole" contest. At the awards dinner following the tournament, a unique presentation was made to Dr. Roy Sennett. He was named "most honest golfer." Would you believe a 139?

Mountain View

Marilyn Westlake walked into the cafeteria expecting just an ordinary coffee break, but fellow-employees had much more in store for her . . . a "money tree" loaded with dollar bills to help her purchase the finishing touches for her new home. Quite a housewarming gift!



And speaking of coffee breaks, Caleta McCleery and Ann Mattos picked up their free doughnut and coffee tickets (as did all Materials employees) from Materials Plant Manager Dr. J. Trevor Law as a result of their 100th day without a lost-time accident. Materials' previous safety record was 59 days.



Power line technician Tad Taguchi was feted by girls on that line for his transfer to Power Engineering.

And, at the next table, Dale Reynolds, LIC classification, was guest of honor at a party celebrating his switch from days to swing.



Giovanna Franco came from Guatemala to the United States recently to work, and work she has. Her very first job, ever, is with the Aerospace and Defense group as an IC lead bonder for Joe Perez. After a month and a half on the job she broke standard, completing 708 Cerpak units on the ultrasonic bonding machine. 456 is standard.



Another sport getting underway is Soccer, and the Fairchild United Soccer team kicked off its second season October 8. Robin Jeffs is manager this year; Jan Visser, treasurer; and Mike Herbach, secretary. Team members are Carlos Medrano, Dick Gamble, Mike Herbach, Robin Jeffs, Mike Lesminster, Colin Berry (front row); Dennis Ferraz, Claude Boissicat, Jan Visser, Leo Amhdei, Tim Mann, and Bill Boyd (back row). Not pictured are George Robsin, George Peter, Maurice Chidlow, Kevin Harris, Phil Calvin, and Warren Moorman. Scheduled games are: October 8 Half Moon Bay

October 15 Norwalk
 October 22 Hercules (Home Game)
 October 29 South San Francisco (HG)
 November 12 Fortuna
 November 19 Germanea (HG)
 November 26 Mexico (HG)
 December 3 Fort Ord

Check with Mike Herbach for confirmation of game or location of field on Sunday mornings at 732-0723. They need rooters.

Bob Ricks is the first Fairchilder to be named "hot circuit maker of the month." He was selected by EEE readers to receive the award for circuit design for July.



Turnaround trips to Reno and Tahoe are sponsored by the Rec Council, and almost a plane-load of employees and guests has winged its way in that direction every weekend. The planes leave San Jose airport on Friday evening and return the next day. The cost of the flight is returned, but usually lost at the gambling tables. Nobody seems to mind, though.

Bowling is underway and the "Gutter Dusters" are off to a fast start with a 14-2 record. Team members are Gene Fetters, Marion Oswald, John Fryer, Timmie Porrez, and Bill Greene.

Research & Development

Sam Uyeda and his group of "River Rats" plans to head for the Stanislaus River for their second overnight raft trip. The R & D group of hardy swimmers and paddlers fought the Klamath River over the Labor Day weekend.

R & D wound up the summer with a family picnic at Frontier Village . . . what a way to go.



R & D golfers took to the fairways Sunday, October 8th, the opening day of the Winter golf league. Jack Jones, league president, is expecting about 40 golfers to participate again in the traveling league. Opening day was held at Tilden Park in Berkeley, and matches are scheduled for such courses as Pasatiempo, Oak Ridge, and Hayward.

San Rafael



Tom Graham is not an ordinary commuter. He feels that flying is much safer than the California freeways, and commutes about twice a week to Palo Alto on Fairchild

business in his two-place Luscombe 8E. In addition to being a great time-saver, he finds flying to be about as inexpensive as driving. He uses only about four gallons of fuel for the round trip. Tom also uses the plane for fishing trips and vacations. He also enjoys aerial photography. He's been with San Rafael for about a year as a Process Engineer.



Susie Elu flies only on vacations and this year's jaunt was quite a trip. Susie and a cousin spent three weeks touring South America. After a brief stop-over in Guatemala and Panama, first stop on their agenda was Machu Picchu, Lost City of the Inca's in Lima, Peru. In Chile, they stopped off in Santiago and Valparaiso. Next they took a boat ride up the Tigre River in Buenos Aires and continued on to Sao Paulo, one of South America's most modern cities. They visited Brazilia, the new capital of Brazil, and the Copa-Cabana Beach was the setting for their stay in Rio. There they visited the tremendous statue of Christ the Savior Monument atop Sugar Loaf Mountain. As impressive as each sight was, Susie maintains the Machu Picchu was the most majestic of them all, and she'll be glad to be tour guide for anyone who'd like to see South America.



Lights, camera, action! The lights she's used to, the camera turns her on, and Carol Vencius, herself, is the action. Carol's building a stand-up comedienne night club act, bringing to it experience with the Improvisation Theater of the Backstage Cabaret and study with "The Committee" theater, both of San Francisco. She's also studied in New York with Herbert Berghoff and Uta Hagen. During the day she doubles as an employee at San Rafael in the Metalization department.

San Rafael employees enjoyed the last days of summer at their annual family picnic at Marin Town and Country Club.



Shiprock



Governor David Cargo of New Mexico, Representative Wilbert Begay, and other dignitaries toured the Shiprock plant to get a first-hand look at the successful operation. Paul Driscoll, plant manager; Elvin Jonas, Shiprock agency superintendent; and Carl Todacheene, Shiprock tribal councilman were on hand, anxious to show off "their" plant. Governor Cargo stopped to chat with many of the employees and remarked that he was very pleased with

the efficient operation. "You have demonstrated the capabilities and potential of this untapped labor force, and here, Navajo men and women have built a reputation for mastery of precision work—a result of native ability and an excellent and continued training program. It is a sound foundation on which the development of the Four Corners area can build."



The Governor's visit came just prior to Shiprock's celebration of two years of operation. On September 7th, the whole Shiprock plant celebrated with ice cream and cake, coffee, and pop. Plant manager Paul Driscoll did the honors slicing the cake. Twenty-four Navajo employees have been with the plant since it opened two years ago, and in all thirty-one employees have been with Fairchild two years or more.



Tijuana

At the request of the management of Electro-Mex, the San Rafael Training department helped set up a training program for the Tijuana group. This initial program is designed to instruct employees in the newly formed Component Fabrication department. Jack Brewer and his San Rafael training staff are currently working on similar training programs for other aspects of production for the Power Transistor department at Electro-Mex.

Oct. /5 yr. Service Awards

Justine F. Goodell	MV	Frances E. Perry	SP
Nadine Thompson	SR	Patricia P. Johnson	MV
Peter E. Huber	INSTR	Grace E. Marquardt	R&D
Joseph J. Trompeter	R&D	Lorenza Armenta	MV

Bernice O. Dennis	MV	V. Gopala K. Reddi	R&D
Rochelle Ferrell	MV	Aquilla R. Dudley	MV
Robert R. Hewitt	R&D	Fred B. Hopkins	SP
Dorothy Beasley	SR	Annie E. Strong	MV
Bruce T. Dyer	SP	Floyd D. Maxwell	MV
Arthur T. Croes	MV	Walter C. Howe	SP
Josephine L. Grover	SP	Thelma G. Hicks	R&D
Bobbie J. Talley	SR	Donald O. Murphy	MV
Betty J. Lax	MV	Herbert Lewis	MV
Geo. E. Higgins	SHIPROCK	Phyllis M. Andrews	SP

Edie Beem, Mask Manufacturing, was awarded her five-year pin by Hazen Dughman, General Foreman, and Joel Sorem, Section Head. She also received news that she was promoted to Mask Making Specialist.



Moving Up

Bob Bylin was promoted to the position of Staff Assistant from his position as Mountain View Integrated Circuit Plant Accounting Manager.

Jack Flowers will fill the position of Mountain View IC Plant Controller. Jack was formerly San Rafael's Plant Controller.

John La Porte is the new Instruments Plant Manager at Instrumentation. He was formerly Product Engineering and Manufacturing Manager.

Cloyd Marvin assumed the position of Marketing Programs Manager for the Aerospace and Defense Department. He was formerly Group Product Manager for Digital Integrated Circuits.

Al Schecter was appointed Government Agency Manager and will handle all sales and marketing activity within the agencies. He was formerly Missiles Program Manager for Marketing.

Dick Thornton is Instrumentation's new Instrument Development Engineering Manager. He formerly held the position of Manufacturing Engineering Manager, Amplifiers.

Rich Wills will be in charge of Marketing Service's product support for Aerospace and Defense. He was Supervisor of the Distribution Services group before his promotion.

New Faces

Dean Gallinatti has been appointed Personnel Manager at Instrumentation, responsible for professional and technical recruitment and such employee relation functions as safety, wage and salary, and training. Dean was formerly with Friden, Incorporated.

Charles Hornisher will be handling product support activities for the Discrete Product Marketing Department as a new member of the Marketing Services team. He comes to Fairchild having just completed his military service obligation.

Craig Jorgensen joins Fairchild as Production Controller at Mountain View. He was previously with General Motors.

Hanjoo Kim was named Senior Product Engineer at South Portland. A native of Korea, Hanjoo most recently worked for Transitron Electric Corporation.

Ib Larsen joins Instrumentation's Marketing Services group in Public Relations. He was formerly with Grinnell Company of the Pacific.

Walter Long joined the Cost Accounting staff at San Rafael as Cost and Budget Manager. He was previous employed by the Glidden Company.

Bruce Mackay is a new Production Foreman in PIC Assembly at Mountain View. Bruce was with Northern Electric before joining Fairchild Semiconductor.

Carl Morig rejoined Fairchild as a Product Engineer at Mountain View, after completing his Master's in Chemical Engineering at the University of Washington. He was formerly an Engineer with Semiconductor.

Doyle Soudeis is a new Power Transistor Product Engineer at Mountain View. He just recently completed Electrical Engineering studies at Oregon State University.

10-YEAR ANNIVERSARIES

This year nine men will have completed ten years of outstanding service with Fairchild. Four are original founders, and the others were among Semiconductor's first 25 employees.



Julius Blank
Facilities Manager
Mountain View
Date of Hire: 10/1/57
Employee No.: 1



Dr. Victor Grinich
General Manager,
Instrumentation
Mountain View
Date of Hire: 10/1/57
Employee No.: 2



Dr. Gordon Moore
Director of Research and
Development
R & D
Date of Hire: 10/1/57
Employee No.: 6



Dr. Robert Noyce
Group Vice President, FCI
Mountain View
Date of Hire: 10/1/57
Employee No.: 8



Murray Siegel
Manager Industrial
Applications
Mountain View
Date of Hire: 10/1/57
Employee No.: 9



Richard Parker
General Foreman,
Device Development
R & D
Date of Hire: 10/21/57
Employee No.: 11



Harlan Lawler
Engineer, Device
Development
R & D
Date of Hire: 12/4/57
Employee No.: 23

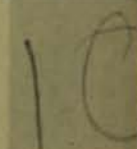
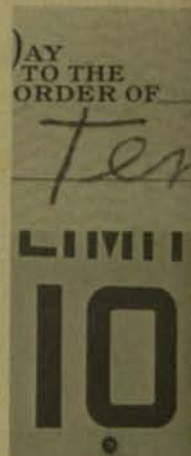


Tom Bay
General Manager,
Semiconductor
Mountain View
Date of Hire: 12/9/57
Employee No.: 24



George Langevin
Plant Engineering
R & D
Date of Hire: 12/11/57
Employee No.: 25

Chris Hadley
650-327-4224



Leadwire

Vol. 9, No. 10

Published by and for Employees of
Fairchild Semiconductor/Instrumentation

Mountain View - Palo Alto - San
Rafael - Hong Kong - South Portland,
Maine - Shiprock, N.M. - Croydon,
Australia - Ontario, Canada - Tijuana,
Mexico - Seoul, Korea

Editor: Judy Horst

Art Direction: Mark Gorse

Photographer: Ron Turner

Reporters:

MOUNTAIN VIEW—Marge Killian, Wes
Cox, Lois Eagleston, Nellie Covington,
Ginger Tygret, Keith Thomson, Judy
Dunkelberger, Iantha Kochsiek, Katie
Guida, John Walsh, Edna Loucks, Missy
Strebig, Val Knowles, Barbara Horst,
Loann Stoats, Chris Squires.

SAN RAFAEL—Cleatus Dunkley, Audrie
Graxiola, Janet Marz, Margaret Queen,
Hal Knopp, Cary Barford, Bobbie Talley,
Anne Parfitt, Hilda Kaliczak.

RESEARCH & DEVELOPMENT—Janet
Jones, Terri Mead, Adrienne Juliano.

INSTRUMENTATION—Jack Ramon, Pat
Campagna, Anna Ackerson, Walt
Skruich, Jeanne Meyer.

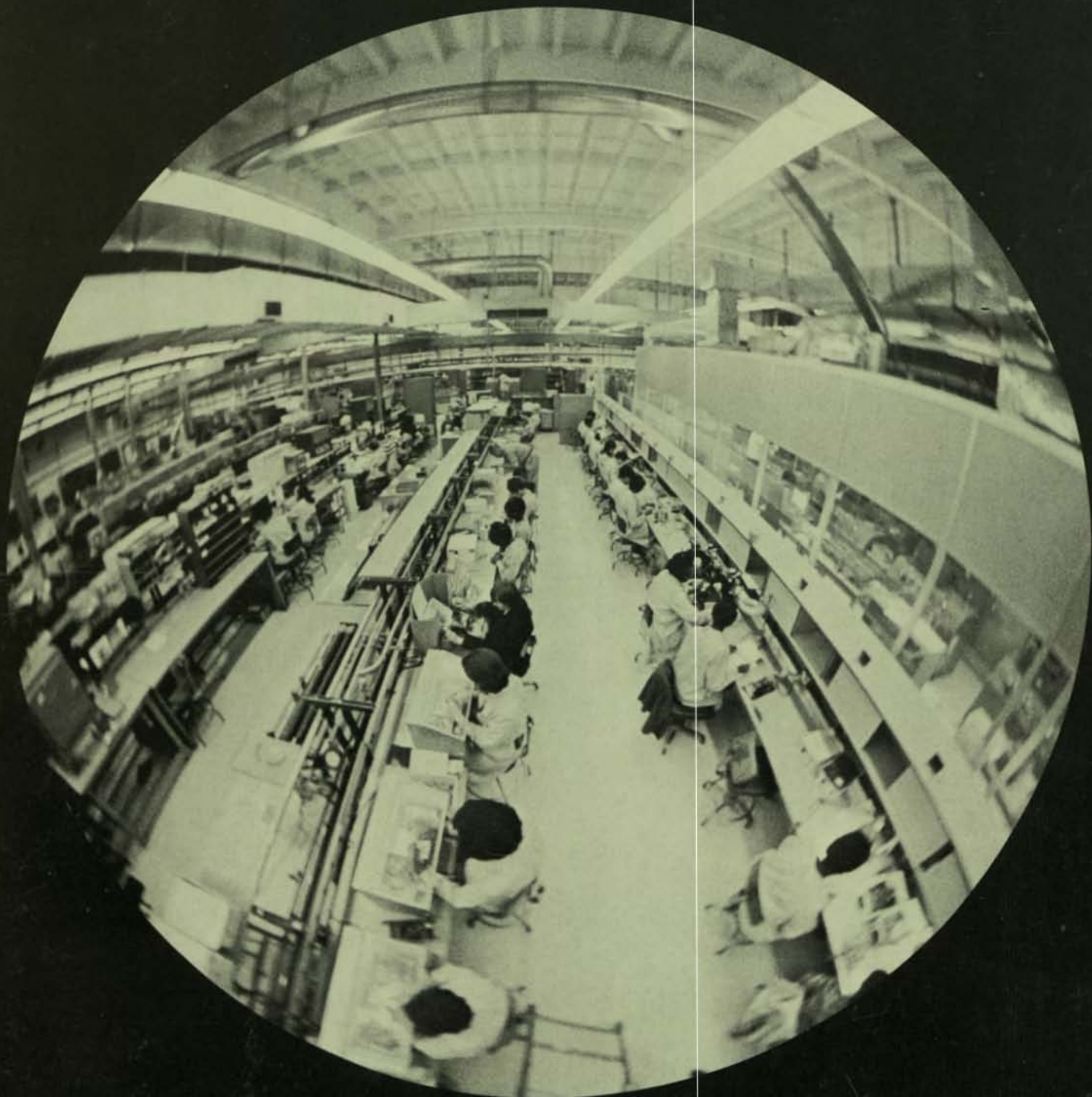
SOUTH PORTLAND—Linda Allen, Bob
Tetrault.

µL is a registered trademark of Fairchild
Semiconductor, a Division of Fairchild
Camera and Instrument Corporation.

Copyright Fairchild Semiconductor
Printed in U.S.A. 4000-477-97 9.5M

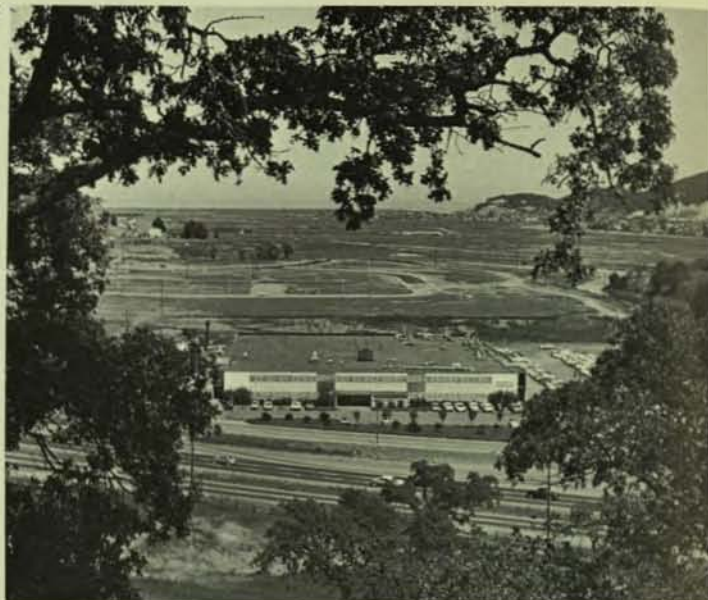
The Cover: This month's cover cele-
brates Fairchild Semiconductor's 10th
Anniversary. Included are pictures of
the garage where FSC began, the eight
founders, and the construction activity
at our new world headquarters.

LEADWIRE 11



You can reach Marin County by land, sea and air. If you come by way of the Golden Gate Bridge, the round trip fare is 50 cents. On the Richmond-San Rafael Bridge, it's \$1.50. If you have your own yacht, it's a fast three-mile sail across San Francisco Bay. If you come by private plane, just try to find a flat spot amid Marin's rolling hills!

Marin County is a mecca of diversity — Giant Redwood trees and the craggy Pacific Coast; Mediterranean-type villages and rolling farmland; cool fog mists and sunshine every day. Frank Lloyd Wright designed one of Marin's famous landmarks, the Marin County Civic Center, and early Spanish missionaries built Mission San Rafael here. Fairchild Semiconductor is also in Marin, just off Redwood Highway a few miles north of San Rafael.



SAN RA



FAEL

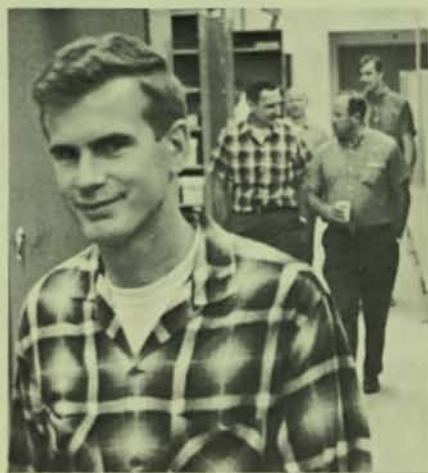
Full Speed Ahead

In 1960 a \$1 million plant for concentrated production of diodes was opened just north of San Rafael in Marin County. It was quite a welcome change for earlier employees who had been working in a small shop (often described in not-too-glowing terms) during 1959. By the end of 1960 more than 300 employees were working at the "Diode" plant, and today (several new additions later) there are three times as many working at that same San Rafael facility.

Now, that name "Diode" might have been very descriptive at one time when San Rafael produced only tiny diodes. (The Fairchild diode is a small glass capsule about a quarter of an inch long with a wire lead protruding from each end.) But today San Rafael manufactures a variety of products in addition to the diode product line.

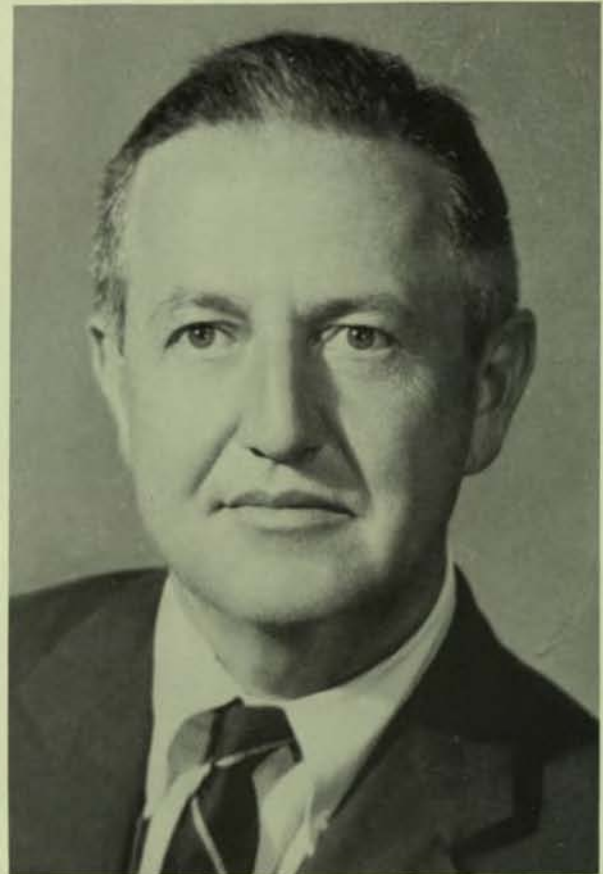
San Rafael is currently working with R & D to take the kinks out of the Glass Microdiode. The Integrated Diode Array is being transferred from the development group at Mountain View to San Rafael. This product is an integrated chip which will be packaged in Cerpac, Dual-in-Line, TO-5's and special packages; and production activities have also extended to Light Sensitive devices (Photo Transistors and new Diode products).

And so, Diode is no longer Diode, but San Rafael—an integral part of the Fairchild Semiconductor world, racing ahead to new projects and to meet new challenges.






SHERMAN FAIRCHILD
Chairman of the Board



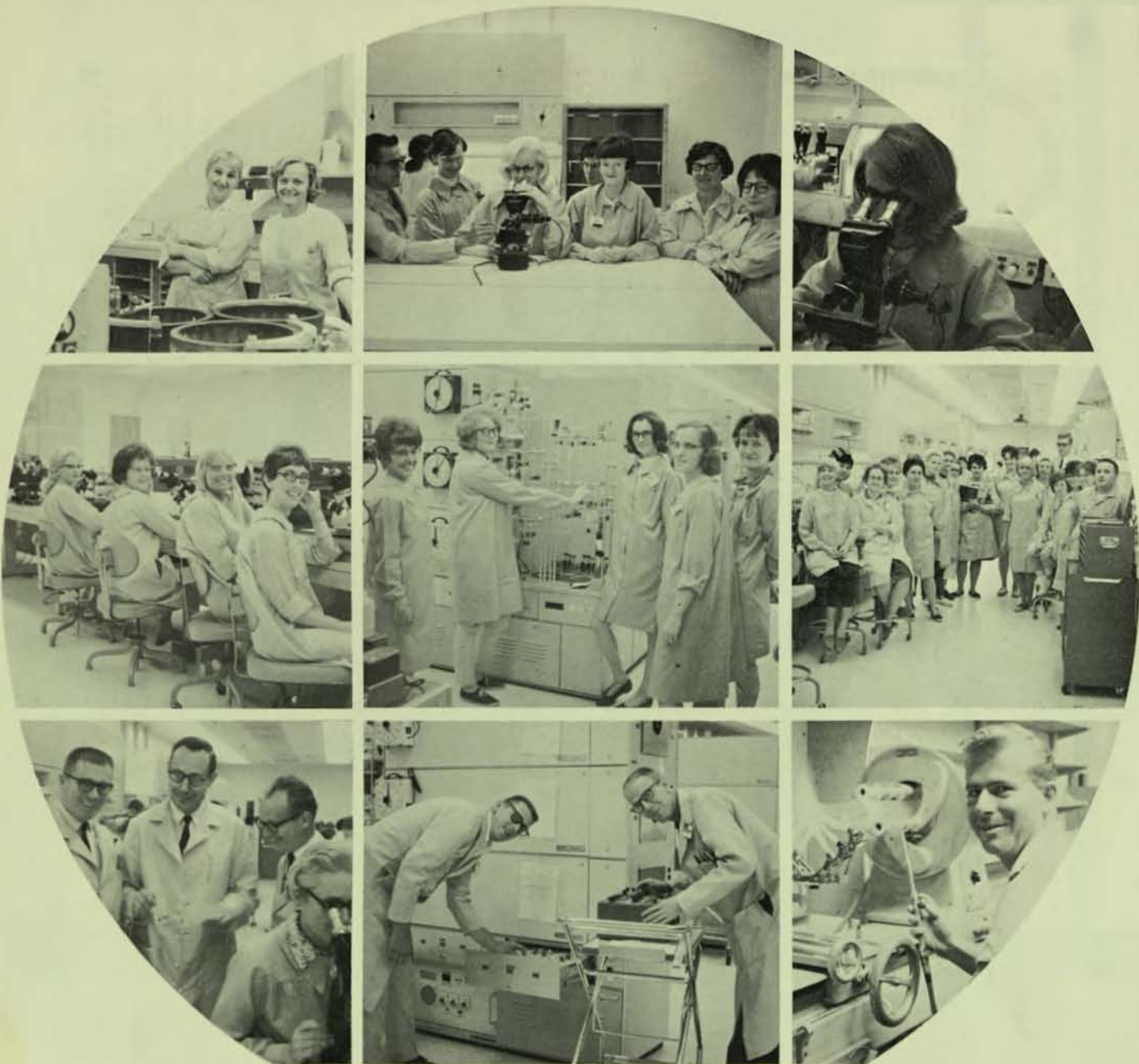
RICHARD HODGSON
President and Chief Executive Officer

 On November 16, 1967 the Board of Directors of our parent company, Fairchild Camera & Instrument Corporation, designated Richard Hodgson, President, as the firm's Chief Executive Officer. This announcement followed quickly on the heels of another major move in which Sherman M. Fairchild, Chairman of the Executive Committee and principal stockholder of the company, assumed the additional responsibilities of Chairman of the Board on October 19, 1967. Mr. Fairchild stepped in immediately after the resignation of John Carter, who had been Board Chairman and Chief Executive Officer since 1962.

A native of Palo Alto, California, Mr. Hodgson graduated from Stanford University in 1937 with a Bachelor's degree in Engineering. He later attended Harvard Graduate School of Business obtaining his MBA in 1939. Following his formal education he held increasingly responsible positions including that as a consultant to the Department of the Air Force through 1952 and 1953. During that time, he was part of a three man advisory group headed by Lt. General James H. Doolittle. The efforts of this team led to the establishment of the Air Research and Development Command. Mr. Hodgson was one of the founders of Chromatic Television Laboratories, Inc. and was President of that firm just prior to joining Fairchild.

Mr. Hodgson joined Fairchild as a vice president in June of 1955. He was named Executive Vice President in April of 1956 and later promoted to President in August of 1962.

It was Mr. Hodgson who, in 1951, convinced Fairchild Camera & Instrument management to sponsor a group of young scientists seeking to enter the silicon semiconductor business. This move resulted in the founding of Fairchild Semiconductor, today the Corporation's largest and most successful Division. He was instrumental in providing corporate guidance to the new operation during the formative years and has maintained a very close relationship with the Semiconductor Division since that time.



WAFER FAB

South Portland Style

Something very big has happened at South Portland this past year — wafer fabrication, to meet South Portland's production needs as well as those of other locations.

Just barely an operation a year ago, Don Shea and the twelve girls who transferred from the assembly area last October have built it into a going concern. Today, wafer fabrication operates a brand new area and numbers more than 200 people. Add to this a new Integrated Circuit area and PNP operation, and the result totals only one thing — Wafer Fab at South Portland is done in "le grande style."



**A&D'S
CHILDREN'S
HALLOWEEN
PARTY**

If you noticed the newly designed exterior of the Aerospace and Defense building on Middlefield Road, the kids went at it with paint and brushes, decorating it in a Halloween motif. It was all part of A & D's first Halloween party for employees' children.



of picnics AND OTHER THINGS



EMPLOYEE RELATIONS



ACCOUNTING



CONTROLS

Of Interest

If You're Ever At The Smithsonian

Ask for the Graphic Arts Gallery, for on the third floor of the Smithsonian Museum of History and Technology in the permanent Graphic Arts collection is Fairchild Graphic Equipment's Scan-A-Graver. Scan-A-Graver, the first commercially successful electronic halftone engraving machine introduced by the Graphics division in 1947, is a new addition to the Smithsonian Collection. The machine literally changed the face of hometown weekly and daily newspapers because it enabled them to make halftone printing plates quickly and inexpensively in their own plants, eliminating the need to send plates to engraving plants in nearby cities. Instead of using conventional photo-chemical methods, the Scan-A-Graver optically scans a photograph and electronically produces a halftone printing plate by engraving a dot pattern on a Scan-A-Plate.

Fairchild Falcons Honored



Fairchild Falcon team members and fans celebrated the team's outstanding performance during the 1967 Softball season at a dinner in the team's honor. Dr. Robert Noyce, Group Manager of Fairchild Camera and Instrument, and team manager Pat Campagna presented individual awards to the players.



Australia

Mrs. Terry Hall, process worker with Fairchild Australia, recently won the company's outstanding attendance award. She has been with Fairchild for almost two years and has never missed a day's work nor been even so much as a minute late in that time. She received a well-deserved bouquet of flowers from Chris Reardon, Manufacturing Manager, and she and her husband were also honored at a dinner at the local Bird and Bottle restaurant.



One of Fairchild Australia's last remaining members of the "Freedom for Men" set, Alan Smith, Final Test Supervisor, gladly relinquished his freedom for Miss Lorraine Bell. Alan's engagement is the third this year at Fairchild Australia. John Baldwin, General Manager, was married in May, and Lionel Hunt, Advertising Manager, took the plunge in August. What's happening to the cause of freedom?!

From the Field



Dan Hauer was named Semiconductor's Salesman of the Year for 1967 at this year's sales conference. When presenting the award to Dan, Jerry Sanders, Director of Marketing, com-

mented, "A salesman must get the orders, satisfy the customer, get the orders shipped, and develop new business as well. This year there seemed to be one person who filled the bill more so than anyone else, Dan Hauer." Dan who works in the Los Angeles office, was also named Aerospace and Defense Salesman of the Month this past June.



Also honored at the sales conference were August's top salesmen: Hank Rainone (Consumer-Indianapolis), Harry Neil (Computer-Fort Lauderdale), Bill Kelly (Industrial-Cleveland), and Al Mattal (Aerospace and Defense-Chicago; now Litton Program Manager at Mountain View).

Instrumentation

There's a feeling of Christmas in the air, and it began as early as November 1st, kickoff date for the Rec Council's sale of Christmas novelties. In addition to giving employees bargain prices on Christmas merchandise, the Council will earn some money from the sales with which to replenish its treasury.

Other Christmas events to mark on your calendars are the Children's Christmas Party, tentatively scheduled for December 16th, and the Christmas Dance December 23rd at the Cabaña.



Moving from Ellis Street to Arques Avenue has been the center of activity at Instrumentation these past weeks, but by November 1st, everything was back to normal. Prior to moving, the women in the Model Shop threw a "get away" party on their last day at the Palo Alto store. Ed Minsky, Dave Anderson, and Paul Cookson just happened to be there to take advantage of the potlock.

And in another move, Ann Wu, wife of Semiconductor's Henry Wu (both are originally from Canton, China), is switching from Tech Writing to Components Evaluation and Standardization.



What makes this move worth watching is that Ann holds the honor of being Instrumentation's only lady engineer.

A letter arrived from the Philippines the other day, a letter from Instrumentation's foster child Bonifacio Navalta. Translated by the Foster Parent's office, Bonifacio wrote: "Before anything else, allow me to give my most cordial greetings to you. How do you do? Is it cold there? Here it often rains and we feel cold at night Flu is common here due to our present climate. Somehow, my siblings and I don't get sick. Before I forget, I wish to convey our sincerest gratitude to you for the valuable things we received. They were multi-vitamins, two fantas rice, raincoat and P31.30 (\$8.00). Many, many thanks for all of these."

Research & Development

Five-hundred miles, five-hundred miles . . . or at least it must have seemed that long going down the Stanislaus River in tiny rubber survival rafts. R & D's River Rats (Margaret Heard, Jeff Wise, Ted Jenkins, John Gunderschaug, Ken Stafford, Bertha Higa, Valerie Lehman, Sam Uyeda, Paul Kageyama and his wife Naomi) drifted over rocks and rapid currents on their second outing of the season. Six rafts started the trip down the mean Stanislaus, and twelve miles and five hours later a rather drenched crew in only five rafts climbed out of the river's cold waters. The week-end outing wound up at Calaveras Big Trees State Park, and 'round the campfire plans were being made for next year's first raft trip. Though battered and bruised the River Rats all pledged to be there when the first raft hits the water next spring.



The winter Golf League's next outing will be at the Oak Ridge Golf Course in San Jose on December 10th; that is, if anyone wants to play after November's trek to Pasatiempo in Santa Cruz.

R & D hosted Fairchild's annual interdivisional technical seminar on October 26th and 27th that drew some of Fairchild's top talent to the Bay Area. Semiconductor speakers explained all facets of the Semiconductor operation to the visitors during the two-day conference.



Dan Davis (driver) and Barry McCabe and Roger Rusert (pit crew).

Dan Davis came roaring home in first place for Formula type cars at the Laguna Seca road races on October 15, 1967, at Monterey with the fastest amateur time of the meet. In the most thrilling race of the weekend, Dan, starting in third position in a Lotus 41C, jumped into the lead right at the start and then held off challengers. The winner was in doubt until just a couple of laps from the end when Dan went into the last turn a little too fast, bounced off the hay bales and his challenger spun out when he swerved to go around Dan to try to grab the lead.

Dan, who is an engineer in the Technology Development group at R & D in Palo Alto, has been racing for about eight years. The chassis for his new car was built by Lotus Components in England for international formula type races. The engine is a Lotus-Ford, twin overhead cam, four cylinder unit with 90 cubic inches modified for racing by BRM. It develops 170 hp and is capable of 165 mph.

Plans for development of the car include fitting a solid state capacitive discharge ignition system and a solid state controlled fuel injection system.

San Rafael

Clara Mertz's record on Auto Class was 119,547. Along came Greta Folds who just had to break that record and set one of her own, 120,778. Then there was Rosie Proctor, and thanks to her the record jumped to 125,618. But that record didn't stand very long for Eleanor Graff had to do her one better, or rather 7,893 better for an all-time record of 133,511. But then Clara wasn't present for this picture, so just maybe she's working on a new record of her own.



Leo Roskopf holds the "Wise Owl" award presented to him by Bram Kool, Manufacturing Engineering Manager, and Wayne Snodgrass, General Foreman Production Maintenance. While working on the new automatic tinner, Leo looked through a slit to observe its operation. Although properly guarded, something jammed the machine causing solder to splatter on him and hit his safety glasses. The award was presented by the National Society for the Prevention of Blindness for his judgment and foresight in the conscientious use of eye protection which saved his vision.



The "Kelp Explorers," San Rafael's Skin Diving Club, held a weekend diving trip October 14th and 15th at Monterey, camping overnight in Carmel Valley and attending the Laguna Seca races on Sunday. Wonder if they ever did any diving with that busy schedule?

San Rafael ended its softball season with seven losses in a row — what a way to go! According to Player/Manager Hal Knopp the team literally fell apart as key players kept dropping off the team. Leading batter was Hal Knopp with a .471; followed by Al Danks, .465; Bruce Mack, .463; Frank Barton, .344; Wayne Snodgrass, .324. Most Improved Players were Mike Feldtman and Wayne Snodgrass; Most Valuable Players

were Hal Knopp and Al Danks; Fastest Base Runners were Frank Ellis and Dave Zahniser; Most Exciting Player was Bruce Mack; Most Ability, Jim Smith; Most Consistent, Frank Barton; Tough Luck Batters, Al Stone and Harry Spence; and Luckiest Batter, Herman Martin. Special mention should go to Al Frugletti (now at Mountain View) who, according to Manager Knopp, should have won most of the awards (not the tough luck or luckiest batter awards) had he been able to complete the season.

San Rafael sports fans can look forward to their own football team this season. The team will play in Marin County's Flag Football League, providing they make it through their strenuous Sunday afternoon practices at Terra Linda High School.

This year San Rafael has fielded a larger basketball team than ever before, and Player/Manager Mike Feldtman says his team is ready to go, having won two out of three practice games this season. The line up: Mike Feldtman, Guard/Forward; Al Danks, Forward; Stan Manning, Guard; Bob Casel, Guard; Frank Barton, Forward/Center; Rob Reynolds, Forward; Bruce Mack, Guard/Forward; George Miller, Guard; Harry Spence, Center; Ron Ostertag, Center; Ernie Grosso, Guard.

And as for bowling, it's underway again with last year's winner, the Diode Diddlers (Rich and Evelyn McIntyre, Al Danks, and Madeline Reynolds), far ahead in first place. Madeline Reynolds (148) and Hal Knopp (171) share high average honors; Joe Manino (206) and Rich McIntyre (223) hold high game honors; and Janet Marz (512) and Art Pearson (566) are high series leaders.

With Christmas coming, San Rafael employees should begin thinking about this year's Christmas Dance. It'll be at the Claremont Hotel in Berkeley, December 23rd, from 9:00 pm until 1:00 am. The Gordon Heche Orchestra will provide the music. Reservations for dinner can be made by contacting the Recreation Council. The choice is Prime Rib at \$4.75 or a Buffet Dinner at \$3.75. Get those reservations in early.

Shiprock



Shiprock's Bureau of Indian Affairs office sent one of its ablest representatives to California, and while she was in Northern California, Juanita Myrtue visited Semiconductor headquarters in Mountain View. It was a chance for her to tour the facility and to better understand Fairchild operations as well as see lifelong friend Andy Anderson, Special Products Applications. Mrs. Myrtue is the Bureau's Community Living, Guidance, and Housing specialist and works with George Higgins, Shiprock's Personnel Manager, to increase employment opportunities, develop training programs, and improve housing conditions, all very much the concern of Fairchild as well as the Bureau of Indian Affairs.

South Portland

After thinking about a subject very close to her heart for some time, Estelle Bragdon, took pen in hand. Her poem should hold special meaning for Q.A. Inspectors everywhere.

Q.A. INSPECTOR'S LAMENT THE TRANSISTOR

Did you ever see a gadget
Three legs, a can & head?
Well lady, if you haven't
Then you're sure as shootin'-dead.

It's a funny little gismo
In various shapes & sizes
And the different ways you test it
Can bring some great surprises.

Your brain is full of figures
The AMP & OHM & volt
And if you don't know the difference
Then you look just like a dolt.

Production Foremen want the stuff
To pass just like a breeze
Specialists too will join the force
And you can feel the freeze.

It doesn't make much difference
If it's HFE or (Sat)
When the doggone spec says 1.4
If it's 1.5 — that's that!

We find the dents & nicks & rust,
The voids & failures too
It's really not an easy job
But that's what we're to do.

Sometimes it fails parameter,
The spec & all you see
Until at last you realize
It's wrong *Polarity!*

To really get confusing
Try leakage, that's the worse
To test the unit normally,
It's really in reverse.

Another thing that's lots of fun
Is ovens with their flaws
You can blow a unit — just like that!
And never know the cause.

Just ask the Q.A. Foreman
Of the battles we have fought
To get the doggone units out,
& marked & packed — and bought.

I guess it's just like everything
That *really* is worthwhile
If you do it *right* — & *know* it's right,
It goes out with a smile.

By: Estelle Bragdon

Mountain View



Yes, Leo, there really is a "Great Pumpkin," and for any non-believers, the "Great Pumpkin" paid a visit to Leo Craft's office, leaving it knee-deep in crumpled paper. Believe it or not, Dian Warnecke, also of IC Engineering, is sitting on Leo's desk.



And in another prank, Mel Snyder, Computer Programs Manager, returned from the National Sales Conference to find his "replacement" dictating to secretary Linda Cartlidge. The new CTL king was lovingly constructed by cohorts Ray Jodoin, Dave Rosprim, Bonnie Weber, Robin Rothschild, and Linda. It was made with 2000 CTL dummy rejects and some way out imagination.



Ever since Mrs. O'Leary's cow kicked over the lantern there's been great emphasis on fire safety. In keeping with this, the Mountain View Security Force participated in a safety seminar on fire prevention and fire fighting. Several weeks later they

sponsored a similar program for all Mountain View employees. All of this practice proved to be very practical, for had any of the employees been in the new headquarters building being constructed on Ellis Street, they would have been prepared for the small fire that broke out there recently. It seems someone accidentally kicked over an acetylene torch. George Von Vick, Chief Applications Engineer with Controls, spotted the fire, called the Fire Department, and had time to take pictures, too.



Many of Fairchild's industrial engineers are participating in the Work-Factor course currently being given in the American Standard building, which part of Semiconductor now occupies. The course, sponsored by George Fischer and his Project and Equipment Planning group, is designed to give its graduates a method for analyzing a job and making changes in a work station for better performance.



In another training program, department heads and section heads are progressing through a Basic Principles of Management course given by Gil Lampner, Manager of Training and Management Development. This course is also planned for persons in other managerial capacities and will be extended to include Instrumentation and Memory/Microwave personnel as well as those managers in the Semiconductor Division.



Robert B. Hood of Consumer Applications received a \$50 cash award for his co-authorship of an article published in the *Appliance Manufacturer* in July of this year. The article, entitled, "Build Your Own Low-Cost SCR Tester," was authored by Bob and William L. Harrell. Bob is Section Head of the Consumer Applications Control Circuits Group responsible for all Consumer semiconductor appliance applications. Bill

was recently transferred to Instrumentation from the Control Circuits group where he was a Senior Technician.

Priscilla Neathery, Memory Products Electronic Assembly, was recognized recently for an innovation she contributed to the basic operation of winding a 300 mil transformer. With a keen eye for production improvements, Priscilla tried winding the transformers using a sewing needle. Implementation of this method has doubled production.



And, in the Packaging Production area, Betty Pena and Judy Ponze have been racing standards for days. Both girls are loading 150 boats per shift, almost doubling standard.



In addition to Semiconductor's 10th birthday, many employees got together to celebrate other birthdays including Marlene Sousa's 21st (she says). Marlene is secretary to Bob Hanna in Materials. Slicing goes at it in a big way, honoring each month's birthday celebrants with one big party. September birthdays included Mary Golden, Margie Chappell, Ruth Whitley, Dan Killeen, Brent Pascoe, Bev Lyons, and Pat Bethel. Linda Eason, then soon to be married, was also feted. Slicing's October birthdays included Marty Barcroft, Pauline Niblett, and Lillian Crawford (not pictured). And a while ago, Materials Production Control surprised Betty Boss with a party on her birthday.



Other celebrations of note were those for Olga Miller when she transferred from IC Production Control where she was a Senior Clerk to Aerospace and Defense for a new job as Expediter, and for Hazen Duffman's promotion from General Foreman, Mask Making to General Foreman, LIC.



It was out with the old and in with the new at Management Information as the operation updated its computer operation with new IBM equipment. Ted Salazar and IBM's Bob Porter assist the departure of Semiconductor's first computer.



Larry Bender, Art Director for Marketing Services, gives Commercial Art students from Foothill College an opportunity to see first hand Semiconductor's Graphic Arts operation. The class met with Larry's staff as well as the Repro and Photography staffs. Larry has been teaching an evening course in Advertising Design for three semesters at Foothill.



Rosie Uriarte (center) of Material Slicing displays one of the bonitos she caught while vacationing in Ensenada. She, at least, has proof to back up those fish stories she brought back with her.

The Rec Council continues to have some "really good deals" employees should be taking advantage of and might want to plan for in the future... like a package trip to Hawaii, June 22-30. The savings will be fantastic, but Fred Pieper, Rec Council director, will need some indication of employee interest. Call him on 5131 if you're interested. Meanwhile, continuous discounts are being offered for shows at all three Century Theaters and the Circle Star Theater. A ski trip is planned for December 8-10 at about \$19 per person. This includes rooms for Friday and Saturday nights, two breakfasts and one dinner, and Heavenly Valley ski lift tickets. For those who'd rather stay closer to home, a Fashion Show is being planned for January, and the Council's sponsoring the following activities: bowling, golf, soccer, volleyball, scuba diving, flying, hunting, photography, camping, and tennis. Just let Fred know if you're interested in any of these activities at 5131.

And, speaking of soccer, the Fairchild United Soccer team beat the Half Moon Bay Athletic Club 3-2 and tied South San Francisco 3-3. They need rooters and hope lots of employees will come out for their home games at Fair Oaks Park. Call Robin Jeffs (5305) for information about the games.

October saw the Tenth Framers push ahead to lead Mountain View bowlers with a 24-8 record. Team members are Les Haynes, Ann Antonio, Howard Lueck, Ann Lima, and Jim Vinzant.



Winners of the Summer Golf League were Pat Ceglia and Harry Chadwick of Packaging.

Nov./5 yr. Service Awards

Warner J. Wandry	R&D	Lillie McDonald	R&D
Carmen L. De La Cruz	MV	Johnnie M. Polk	MV
Thomas E. Acton	R&D	Jim E. Stangl	MV
Lidwina B. Silva	MV	Rosemary Tabellija	MV
Jeanne Stone	MV	Mary B. Carrasco	MV
Jo Ann Seuser	MV	Myrna R. Hyatt	MV
Loretta Gard	MV	Marlys I. Fleming	MV
David J. Pilling	R&D	Albert D. Rosales	R&D
Maryann Garcia	MV	Rebecca Real	MV
Frank T. Botte	MV	Maxine I. Hamilton	SR
Carl M. Fender	R&D	Charlene R. Madore	SP
Gloria M. Wright	MV		

Flavio Valiente and Bob Sudduth, technicians at Instrumentation in the System Test area, cut the cake at their five-year anniversary party. Both received their pins from a recent five-year veteran, Jim Chun.



Donna Hughes' five-year service award was presented by Materials Production Control Manager Bob Hanna.

George Higgins, Personnel Manager, was awarded his five-year pin by Shiprock's plant manager Paul Driscoll.



Betty Lax, Production Control, received her five-year award from John Shuck, head of Packaging.



Dottie Gallagher was surprised at a party given by fellow employees to celebrate her *ninth* year with Semiconductor. She was only going to work for a month to pay off an old panel truck and a fence she and her husband had just bought. When she was hired, she was the only tester on the swing shift, then switched to days in applications engineering, moved up to QA and Spec Writing, and today is IBM Specialist for the Discrete Device Product Support group at Mountain View.

Moving Up

Donald G. Blodgett was promoted to the position of Accountant at South Portland. Previous to his promotion, Don was Assistant Accountant and was formerly Timekeeper.

John Bosch was named Marketing Manager for Discrete Devices, bringing to the job an extensive sales background and business management experience.

Steve Carmichael was appointed Product Manager of Special Products at San Rafael. Steve previously worked at Mountain View as a General Foreman.

Colman Daniel was named Southwest Regional Manager for the Aerospace and Defense Marketing Department. He was formerly Sales Engineer in San Diego.

George Flynn was appointed Central Industrial Regional Manager. He was previously Sales Engineer for Fairchild in the Boston area.

James Kennedy was promoted to Sales Engineer to direct computer sales activities in the Minneapolis, Minnesota area. He was most recently a PNP Marketing Engineer at Mountain View.

Larry Luiz was named IC General Foreman at Aerospace and Defense. He was formerly Supervisor Special Products.

Gaylord Lineaweaver was promoted from Senior Tech Illustrator in Marketing Services to Assistant Graphic Arts Production Manager.

Cloyd Marvin was appointed to the position of Programs Manager for the company's Aerospace and Defense Department. Most recently he was Group Product Marketing Manager for Digital Integrated Circuits.

Alan Mattal was named Semiconductor's Programs Manager for Litton Industries. He has been with Fairchild for five years, last serving as Sales Engineer in the central region.

Jan Peters was named Senior Personnel Assistant in Employee Relations at Mountain View specializing in Insurance Benefits. She was formerly an Employment Interviewer at Mountain View's General Employment office.

Jack Singer was promoted from Manager of the Sales Binder Program to Manager of Marketing Services Distribution.

Marshall Smith has been appointed Group Controller of Aerospace and Defense Products, responsible for A & D, Hybrids, and Canadian plants. His most recent assignment was Manager of Financial Planning and Analysis.

Dick Steinheimer was named Senior Photographer for Marketing Services. He will be specializing in Public Relations projects. He was formerly head of the Photography Section.

Charles Sutcliffe was named to head an integrated Power Product organization within Discrete Operations. Dr. Sutcliffe will be working with those individuals now involved with the power products to establish a plan for evolving power activities into an integrated business. He has been responsible for the development of Fairchild's current MOS organization since joining Semiconductor a year ago.

Ron Turner was named to head up the Photography section of Marketing Services. Ron has been a photographer with the Semiconductor Division for nearly four years.

John Wells was appointed Group Controller of the Discrete Devices product group and will be responsible for the San Rafael, Shiprock, Hong Kong, Korea, Tijuana and Mountain View plants. His most recent assignment was as the Mountain View Plant Controller.

New Faces

Michael Dahl joined San Rafael as a Product Engineer. He was formerly a Research Assistant at Oregon State University.

George W. Dean was appointed Product Engineer at South Portland. He was most recently with RCA in Lewiston, Maine.

James Dixon was named Customer Service Sales Liaison Engineer at San Rafael. He worked for BBDO Advertising Agency as Radio-TV Commercial Production Coordinator before joining the San Rafael group.

Dieter Fieber joined South Portland as Electronic Service Engineer. A native of Germany, Dieter comes to Fairchild from Texas Instruments Deutschland where he was a Production Engineer.

Bruce Gray was named Electronic Services Engineer at South Portland. He formerly worked as a Quality Assurance Engineer with the Norden Division of United Aircraft.

David McLaughlin was appointed Senior Engineer in the PNP Wafer Fabrication area at South Portland. He was previously employed by National Semiconductor where he was a Senior Product Engineer.

James Steele joined South Portland as Quality Assurance Engineer recently. A graduate of MIT, he was on active duty as Lieutenant (jg) with the United States Navy. He served as Ship Superintendent in the Portsmouth, New Hampshire Shipyard until his recent discharge.

GH-10

Leadwire

Vol. 9, No. 11

Published by and for Employees of
Fairchild Semiconductor/Instrumentation

Mountain View - Palo Alto - San
Rafael - Hong Kong - South Portland,
Maine - Shiprock, N.M. - Croydon,
Australia - Ontario, Canada - Tijuana,
Mexico - Seoul, Korea

Editor: Judy Horst

Art Direction: Mark Gorse

Photographer: Ron Turner

Reporters:

MOUNTAIN VIEW—Marge Killian, Wes
Cox, Lois Eagleston, Nellie Covington,
Ginger Tygret, Keith Thomson, Judy
Dunkelberger, Iantha Kochsiek, Katie
Guida, John Walsh, Edna Loucks, Missy
Strebig, Val Knowles, Barbara Horst,
Loann Stoats, Chris Squires, Bonnie
Weber.

SAN RAFAEL—Cleatus Dunkley, Audrie
Graxiola, Janet Marz, Margaret Queen,
Hal Knopp, Cary Barford, Bobbie Talley,
Anne Parfitt, Hilda Kaliczak.

RESEARCH & DEVELOPMENT—Janet
Jones, Terri Mead, Adrienne Juliano,
Janet Lumley.

INSTRUMENTATION—Jack Ramon, Pat
Campagna, Anna Ackerson, Walt
Skruch, Jeanne Meyer.

SOUTH PORTLAND—Linda Allen, Bob
Tetrault.

μ L is a registered trademark of Fairchild
Semiconductor, a Division of Fairchild
Camera and Instrument Corporation.

Copyright Fairchild Semiconductor
Printed in U.S.A. 4000-543-107 9.5M

THE COVER: This month's cover is a
unique "fish-eye" photo of San Ra-
fael's Swing Shift who are part of the
more than 850 San Rafael people fea-
tured in the November *Leadwire*.