

The Museum of HP Calculators

## The HP Garage - The Birthplace of Silicon Valley

In 1938 David and Lucile Packard got married and rented the first floor of the house at 367 Addison Avenue in Palo Alto. The simple one car garage became the HP workshop and the little shack out back became Bill Hewlett's home. In 1989 California named the garage "the birthplace of Silicon Valley" and made it a California Historical Landmark.

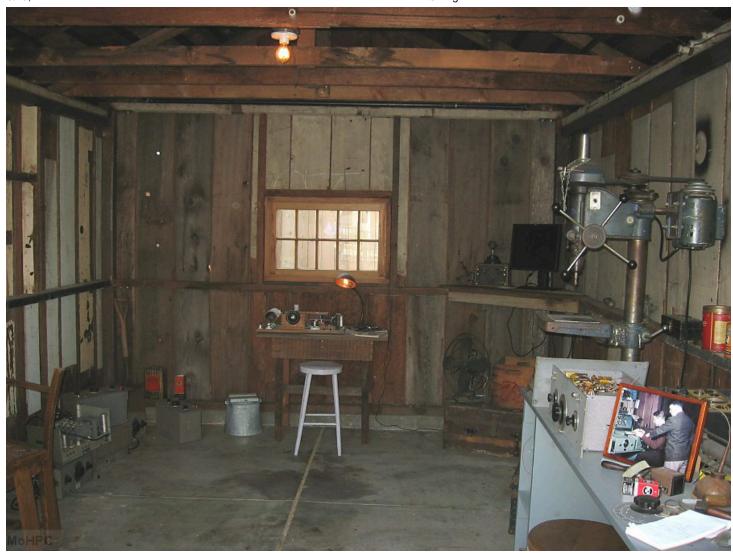
This home was built in 1905 and remained a rental property throughout most of its existence. In 2000, HP decided that they needed to acquire the house so they could properly preserve its history. What was a modest middle class home in the 1930s was bought for 1.7 million dollars in 2000. Over the next 5 years, the house was restored back to what it was like in 1939 (except where compliance with modern code didn't allow.) In 2007, the property was added to the National Register of Historic Places.

## **The Garage**

Dave Packard had gone to Schenectady to work at General Electric. He was told that there was no future in electronics at General Electric and that he should instead concentrate on generators, motors and other heavier equipment. Bill Hewlett was finishing up his graduate work at Stanford and the two decided to pursue their earlier plan of starting their own business. The name HP (vs. PH) was chosen by a coin toss. For \$45 per month, the Packards rented the first floor of the house, which was chosen specifically because it had a garage that they could work in. Bill Hewlett moved into the little shack next to the garage.

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At first they didn't know what they were going to build so they experimented with ideas like using electrical currents to activate muscles for exercise. (HP never offered such a device but other companies did! Electrical devices were seen as the cure to many ills at this time.)

Eventually they chose to build a new type of oscillator based on work Bill Hewlett did at Stanford and chose "200A" for their first model number to give the impression that they had been doing this for some time. They originally chose a price of \$54.40 based on a historical slogan. When they later found that their closest competitor was a General Radio product that sold for \$400, they decided to change the price to a still comparatively modest \$71.50, which allowed them to better fund their young company.

One of the first sales was to Disney. Disney wanted a number of changes which resulted in the model 200B. Disney bought 8 of 200Bs to use in the production of Fantasia.





Dave Packard brought the used drill press back from GE in his car.



Much of the work was done in the garage but there's only so far you can go with a used drill press and hand tools so they also relied on friends. For example the dials were made by calibrating in the shop and marking the lines with a pencil. Then Dave Packard took them to Charlie Litton's shop (Litton Industries) and engraved them. Because Charlie Litton liked to work until 2 or 3 AM, his equipment was free for use by Dave Packard in the mornings. Years later a flood destroyed much of Litton's equipment and HP's facilities had improved to the point that they could return the favor and keep Litton's products shipping.

At the end of the garage is a radio set. Dave Packard had an interest in radio since his childhood and some wiring that appeared to be an antenna was found while restoring the garage so it is believed that Dave engaged in his hobby here as well.



Period wiring and switches are visible though the lights are really running from hidden code-compliant wiring. The clear bulbs are there because that's what people expect of that era, though in reality, frosted bulbs were already common. If you look carefully you can spot some other updates appropriate to a landmark such as fire suppression and video surveillance.



Finally, here is a snapshot of a picture on the wall of HP Building 3 on Page Mill Road.



The Home of David and Lucile Packard



The door on the left leads to the first floor that Dave and Lu Packard rented. The door on the right leads to stairs to the second floor (where the landlady, Mrs. Spencer, lived.)



An oscillator on the mantel? No home is complete without one! When Bill and Dave sent out their first marketing material. the oscillator was placed on the mantel for a photograph. They didn't expect much of a response from their first attempt but they did receive orders - including orders with checks.



From this angle, the dining room gives the impression of a large home, however, this dining room also contained a Murphy bed, and each night they moved the table and chairs so they could lower the bed. Space was really quite tight.

A few images from Lu Packard's scrapbook follow:



Partial view of the Hewlett-Pockard casembly line in South Pale Alts. The testing equipment being unsembled on the first called "audio-accidate," and on the right harmonic wave nucleus."

## H-P's Radio Testing Gadgets Don't Play Those Waves by Ear

"Dream' Has Long Since Outgrown Tiny Shop in Garage

By Rosa McKay Jensen

radio's performance and the accuracy of its reproduction are due chiefly to the laboratory testing it receives before it is put on the market. But it was not al-

Ways 50.

Radio's efficiency, until recent years, was judged by the human ear, and the technical knowledge of the ease who assembled and tested it. Now all that is charged. Machines, called auditooscillators, are used in testing radios, and all sound equipment, for commercial distribution, just at they were used by the government during the way.

Probable is not all the processor of the process

Probably in no other field is preper instrumentation so vitally important as in

TODAY, the perfection of your radio's performance and the accuracy of its reproduction re due chiefly to the laboratory estimate it receives before it is put in the market. But it was not always so.

Badio's efficiency, until recent years, as judged by the human ear, and the chaineal knowledge of the men who establical knowledge of the men who establical knowledge of the men who is a pulped. Machines, called audioocellist, are used in testing radios, and all sand equipment, for commercial dustrian are used in the interest deviation, and all sond equipment, for commercial dustrians are used in testing radios, and all sond equipment, for commercial dustrians are used in testing radios, and all sond equipment, for commercial dustrians are used in testing radios, and all sond equipment, for commercial dustrians are used in the story commercial dustrians are used in the story commercial dustrians are used in the story commercial dustrians are used to the story commercial dustrians are used to be supported by the story of the story of

15,000 square feet of floor space and the US compleyers they have today our proces even the founders.

After graduation, Mr Reviets were to MIT for his praducts work and Mr. Packard worked for General Electra four years. In 1928, both went back to Starford for their engineering degrees, and at the same time they started their electronic manufacturing company. The work they did in development led to the Standard oscillators new in such great demand.

At first they were also their own pub-licity agents. Pictures were taken of the oscillator — a metal law, semething like a radio in appearance approximately fial7x10 in, the front of which is covered facinitions, the front of which is covered with deals and custroids. Descriptive in-formation was printed, and with the pic-tures, this was sent to a list of possible clients — conjunery and manufacturers all over the country — and orders began to cover to

ONE of the first orders was from Los Engineers) meeting and put beside an oscillator made by the leading manufac-turer in the field. Hawkins, chief en-gineer for the Walt Duney Studios, was much impressed, as the H-P oscili-

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Disney ordered nine of the IPP escillators to be used in the production of Fantasia.

And as the entire staff consisted of it and P themselves, they often had so work well into the evenings to fill these

orders.

In 1842, they outgree the garage shop and with their enlarged erea: moved in their present location. They save employ the enters, all graduates with a degree or taken from special government laborateries, and all of whom are specialist in this field. He's has one of the strong cell engineering groups of this type in the country, and they are again expanding

IN the new building, new under con-struction, they plan to carry out ex-tensive research work for the future de-velopment and manufacture of electronic verogenest and seasonate are a reconsistent instruments. Some of the parts are manu-factured in the Palo Alto plant, and some are purchased from other manufac-turers, but all the assembling is done by HP employees, in day and night shifts.

Not only has Hewlett-Packard produced an outstanding line of merchandise, they also have set an example of harmonisms

PENINSULA LIFE - May 1948



William Hewlett field and Dove Fackerd, francers of the Hewlett-Peckerd Co. in South Pale Alto.

Increase.

The two-boar opers too will be given in San Francisco's Civic Auditorium on the night of October 13 at popular proces. According to Kenneth Montesgle, president of the San Francisco Opera According internationally lamous stars will perform at this special Portula Festival opera presentation. Gartano Merola, long associated with the opera association, will direct.



The oscillator was painted in the garage and then the paint was baked on using the oven in the kitchen. There's a cover in the "baking position" below. Bill and Dave later made an oven of their own out of an broken refrigerator but soon learned that the insulation used in the refrigerator was flammable! Everyone lived to a healthy old age despite all the paint baking in the kitchen.



The Shack Where Bill Hewlett Lived

When you enter Bill Hewlett's shack, the first thing you see is his desk.



Standing in the same place and turning to the right, you see... everything else!



That's it! These two photos show his living space. Two items are not period-correct: there was a toilet which HP chose not to restore and the floor was not wood but... dirt! It was the depths of the great depression and Bill Hewlett loved the outdoors so perhaps living in what wasn't much more than a tent wasn't too hard for him. Other people rented that tiny space in the decades that followed.

## **Further Information**

Because the HP home and garage are in a neighborhood, they are normally impossible to visit. The curator was very lucky to get invited by someone who has since left the company.



Go back to the main exhibit hall