

Senate Concurrent Resolution

No. 30

Introduced by Senator Hill

March 11, 2015

Senate Concurrent Resolution No. 30—Relative to the Frederick E. Terman Memorial Highway.

LEGISLATIVE COUNSEL'S DIGEST

SCR 30, as amended, Hill. Frederick E. Terman Memorial Highway.

This measure would designate a specified portion of State Highway Route 101 in the County of Santa Clara as the Frederick E. Terman Memorial Highway. The measure would also request the Department of Transportation to determine the cost of appropriate signs showing this special designation and, upon receiving donations from nonstate sources covering that cost, to erect those signs.

Fiscal committee: yes.

- 1 WHEREAS, Frederick E. Terman was one of the most successful
2 American administrators of science, engineering, and higher
3 education in the 20th century; and
4 WHEREAS, Terman was born on June 7, 1900, in English,
5 Indiana. Terman attended Stanford University, where he completed
6 his undergraduate degree in chemistry and his master's degree in
7 electrical engineering; and
8 WHEREAS, Terman returned to Stanford *University* in 1925
9 as a member of the engineering faculty and for his first 12 years
10 he was the only faculty member teaching electronics (or radio
11 engineering, as it was called at the time). In 1932, Terman wrote
12 and published a textbook on Radio Engineering, which was one

1 of the most important books on electrical and radio engineering
2 and remains a good reference on these subjects; and

3 WHEREAS, Terman worked hard to bolster electrical
4 engineering and technology in California at a time when most
5 engineering job opportunities were on the East Coast. Terman was
6 elected president of the Institute of Radio Engineers in 1940, the
7 first person ever, west of Pittsburgh, to be elected; and

8 WHEREAS, During World War II, Terman directed a staff of
9 more than 850 at the Radio Research Laboratory at Harvard
10 University, an organization that was the source of various
11 technologies used to counter enemy radar during the war. These
12 countermeasures significantly reduced the effectiveness of
13 radar-directed anti-aircraft fire; and

14 WHEREAS, After the war, Terman returned to Stanford
15 *University* and was appointed Dean of the School of Engineering.
16 Terman made the Stanford School of Engineering one of the best
17 in the country. By 1950, Stanford *University* awarded as many
18 electrical engineering Ph.D. degrees as ~~MIT, the Massachusetts~~
19 ~~Institute of Technology~~, with a much smaller faculty. Terman laid
20 the foundations that would make Stanford *University* one of the
21 world's preeminent research universities from which many major
22 Silicon Valley corporations have been formed, including ~~Hewlett~~
23 ~~Packard~~, *Hewlett-Packard*, Cisco, Yahoo!, Rambus, Google, and
24 VMWare; and

25 WHEREAS, Terman single-handedly created the university,
26 government, and private industry partnership model that still
27 characterizes Silicon Valley in the 21st century by creating the
28 Stanford Industrial Park, a revolutionary idea at the time, to
29 associate industry more closely with the university. Companies
30 such as Varian Associates, ~~Hewlett-Packard~~, *Hewlett-Packard*,
31 Eastman Kodak, General Electric, and Lockheed Corporation
32 moved into Stanford Industrial Park and turned the mid-Peninsula
33 area into a hotbed of innovation, which eventually became known
34 as Silicon Valley. Terman encouraged the licensing of Stanford
35 *University* inventions and the establishing of faculty-consulting
36 relations as a means of getting Stanford *University* ideas into the
37 core of industry; and

38 WHEREAS, Bill Hewlett and Dave Packard were two of
39 Terman's favorite engineering students, and certainly his most
40 successful protégés. Following his encouragement, they formed

1 ~~Hewlett-Packard.~~ *Hewlett-Packard*. Years later, they left behind
2 ~~a Global Fortune 500~~ *Fortune Global 500* company that sells
3 products around the world and multiple multibillion dollar
4 charitable foundations; and

5 WHEREAS, Frederick E. Terman passed away on December
6 19, 1982, in Palo Alto, California, at 82 years of age. In his
7 declining years, Terman reflected, “When we set out to create a
8 community of technical scholars in Silicon Valley, there wasn’t
9 much here and the rest of the world looked awfully big. Now a lot
10 of the rest of the world is here”; now, therefore, be it

11 *Resolved by the Senate of the State of California, the Assembly*
12 *thereof concurring*, That the Legislature hereby designates the
13 portion of State Highway Route 101 from post mile 48.596, at
14 Shoreline Boulevard, to post mile 52.550, at the San Mateo County
15 line, in the County of Santa Clara, as the Frederick E. Terman
16 Memorial Highway; and be it further

17 *Resolved*, That the Department of Transportation is requested
18 to determine the cost of appropriate signs consistent with the
19 signing requirements for the state highway system showing this
20 special designation and, upon receiving donations from nonstate
21 sources sufficient to cover that cost, to erect those signs; and be it
22 further

23 *Resolved*, That the Secretary of the Senate transmit copies of
24 this resolution to the Director of Transportation and to the author
25 for appropriate distribution.