Engineering Pays Off at Work and at Home

By EILEEN FOLEY

THE LITTLE GIRL stood staring at the brunette bricklayer, then solemnly said, "My mommy says ladies don't do that."

"Honey," replied the brunette bricklayer, slapping on some more mortar, "she has the wrong idea of what constitutes a lady."

Speaking was a woman who's unnettled by jokes like. "She's no lady, she's an en-

She's Dorothy "Dotty" Hoffman by name, engineer by profession, lady by mature. And the first female to be invited to membership in the exclusive, 84-year-old Engineers' Club of Philadelphia.

By weekends she's a do-itvourself patio bricklayer, indoor plumber and occasional electrician, plus the perennial cook.

"Yes, I can cook. If there's one thing a chemical engineer learns it's to follow a recipe." • . .

MRS. EARL Hoffman is an engineering and research project leader at International Resistance Co., and a pioneer

in the development of micro- ate engineer, too, but now has miniature metal film resistors.

Instrumental in opening up the whole field of evaporative film technology in which IRC is now world leader, Mrs. Hoffman also had an important role in the continuing Air Force's Minuteman missile P)(0)2(12)m

mitted in 250,000,000 unit dening. hours of operation.

(Resistors, Dotty explains, are small electronic devices which regulate the flow of current to various parts of any electronic system.) 0 -0 "0

DISCOVERY, that day eight an application." years ago, that her pet experi- Treasurer her deductions.

tory nine years before switching to process development) the dramatic, dark-haired engineer donned overalls to construct her own evaporative unit- putting in the pumps, working with wiring.

"My husband-he's a gradu-

his own sales-by-mail business -thinks as long as I'm capable of doing a little plumbing and wiring at home, why discourage me," she said.

Most summer weekends found them clearing the woods ("we'd take turns sawing and lugging") on a lakeside lot in For it the Philadelphia- the Poconos, where they'd unbased firm, where she has fold their kayak-like German worked 11 years, has de- boat rigged for sailing to take veloped a new ultra high re- a "boating break" from the liability fixed metal film resis- trees. An avid swimmer, the consultant for microcircuits, tor which must function fault- tanned Mrs. Hoffman also she rarely wears either coverlessly-only one failure is per- shows a green thumb at gar- alls or a white coat over her

> ABOUT HER admission last month to the heretofore allmale Engineers' Club, she comments, "I thought it was about time someone broke the ice by high vacuum technology to and jumped in, so I filled out as tiny as one-hundred mil-

of Delaware ment had proven something, a Valley Engineering and Tech- a kiln used by the Lunchhour new condensed metal charac- nical Societies Council, which Ceramics Club she organized. teristic capable of being mar-represents 24 scientific groups keted, came with no flash of and 15,000 local members, Mrs. city's northeast border and the lightning nor poof of chemi-. Hoffman also heads the city's cals. Dotty had a pencil in her Society of Women Engineers, hand, plotting the data and , whose initial goal of equal opportunity has now been During those days (she switched to recruiting women worked in the research labora- for their craft.

"Engineering is one of the best educations. It teaches you to think logically," believes Dotty whose greatest compliment was paid last year when IRC hired not only another woman engineer but a female physicist.

They were a rarity when she entered Rensselaer Polytechnic Institute in Troy, N. Y., and emerged four years later with a fiance and Bachelor of Science. "I liked math and chemistry, so was steered into chemical engineering - even got a Master's in it at Bucknell but haven't used it since. This is really experimental

CURRENTLY a technical self-sewn dresses - "They're too darned hot." A non-smoker, she's adamnant about the no-smoking signs in the laboratory, where ash-flicking would clutter metal condensed lioneth of an inch strips.

In one corner of her lab is But once she reaches the house shared with her husband-they have no children -the New York-born engineer is apt to practice golf, singing (she's a former Olney Graduate Chorister) or listen to their vast collection of classical records.

"Or sometimes I just collapse on the patio and Earl reads to me," she said, patting the bun at the back of her head. "Then I can REALLY be a lady."

