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LETTERS

A report on Caltech alumni now in the Jesuits

Sirs:

Recently I went through some back copies of *E&S* and found my name in a list of lost alumni. So I want to come out of the darkness and declare myself not at all missing.

Perhaps I can also give you a little news on my own doings, and those of two other Tech men who are with me in the Jesuits, studying for the priesthood.

Basic Training

I always enjoy seeing the various jobs that Tech men work into after graduation. Some seem to be in quite a different field from that in which they were trained at Tech. Maybe our work will seem so, too. *Pat Doherty*, '49, entered the Jesuits at Los Gatos, California, first, after a year of work in electrical engineering. I followed him the following year, after getting my MS at Notre Dame. *Tom Janssens*, '53, entered immediately after graduation. Tom is still at Los Gatos in the basic training period of our 15 years of study. Pat and I are here at St. Louis University, studying physics and philosophy.

All three of us will probably be working in the field of physics after ordination; it will not be a sideline, but our main priestly work. Perhaps with a foothold in two such apparently diverse—almost opposed in some minds—fields of human experience, we will be able to make some little contribution to the unification of man.

The whole man

I certainly am proud to be an alumnus of Tech and thankful for the wonderful training it gave me. I especially appreciate the attempt that Tech has always made to train the whole man—"a broad man sharpened to a point," as Dr. DuBridge said at freshman camp long ago. I appreciate the articles in *E&S* that show that this spirit of trying to fit one's specialty in the whole of human endeavors continues strong at Caltech.

From time to time I hope to send you a little report on the doings of this little alumni cell inside the Jesuits. (There are other Jesuit alumni, no doubt, like Father Wertz

CONTINUED ON PAGE 46

ENGINEERING AND SCIENCE

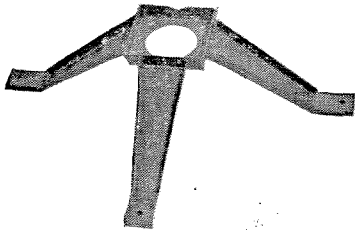
PRODUCTS DESIGNED FOR STEEL COST LESS BECAUSE:

- 1** Steel is 3 times stronger than gray iron.
- 2** Steel is 2½ times as rigid.
- 3** Steel costs a third as much per pound as cast iron.

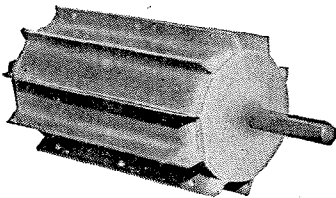
CUTS COSTS WITH WELDED STEEL

PRODUCTION costs largely determine whether a design is acceptable for manufacture. The successful designer therefore, seeks out every opportunity to eliminate unnecessary expense from his engineering recommendations.

Because steel is stronger, more rigid than iron, yet costs a third as much per pound, costs on many products such as the two shown below can be cut as much as 50%.



COSTS 30% LESS — Machine bracket is welded from 10 gauge metal. Weighs half of original cast design. Cut is stronger, more rigid. Costs 30% less to produce.



COSTS 45% LESS — Feeder roll is built from standard channel welded to steel discs. Steel design eliminates breakage, weighs half of former casting. Saves 45% on cost of manufacture.

Ideas for designing in welded steel

Bulletins and handbooks on latest design procedures are available to engineering students. Write:

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Cleveland 17, Ohio
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ARC WELDING EQUIPMENT

LETTERS . . . CONTINUED

of Loyola University, besides secular priests and those of other orders.) And we'll be keeping up with the rest of you through *E&S*.

Donald Merrifield, '50
St. Louis, Missouri

Nonsense Note

Sirs:

The following words of wisdom on the subject of alumni funds have probably been kicking around for so long that their original author could not possibly be identified. At any rate, I picked this up in the *Engineering and Mining Journal* the other day and thought some of the other donors to the Caltech Alumni Fund might get a laugh out of it:

Almost everyone is asked from time to time to contribute a shekel or two to the old alma mater and practically any reply but hard cash is unsatisfactory to the fund

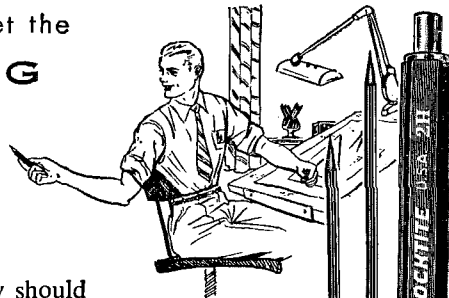
collectors. The following letter received by one such group is an exception:

"As I am an aluminum of two other colleges besides Y Harvard, and cannot, with my bismuth in its present state, pay antimony to all three, I hope you will not think me a cadmium if I do not caesium this opportunity of making a donation. So far this year I have metal current expenses, but in these troubled times when the future holds in store we know not phosphorous, I could not make a contribution without boron from the bank. It would nickel out of my savings. A manganese spend his dollars these days; a tin spot is gone in no time. One is lead to believe he is pouring them down the zinc. Much better to sodium up in a stocking. So don't be silicon not make any contribution this year unless a bromine helps me out."

John Erickson, '34
Glendale, Calif.

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