VIEWPOINT

"VIEWPOINT" provides an opportunity for readers to discuss problems and questions facing our industry.

Please address your questions and answers to: VIEWPOINT, GEAR TECHNOLOGY, P.O. Box 1426, Elk Grove Village, IL 60007.

Dear Editor:

Since we are a high volume shop, we were particularly interested in Mr. Kotlyar's article describing the effects of hob length on production efficiency which appeared in the Sept/Oct issue of GEAR TECHNOLOGY. Unfortunately, some readers may be unnecessarily deterred from applying the analysis to their own situations by the formidability of the mathematical calculations. I am making the following small suggestion concerning the evaluation of the constant terms.

The article's author adroitly recognizes that the ratio $a/b = \sin(q)$ when he uses equation (2.3) of the line in reducing the three equations into one polynominal in order to determine the length of the roughing zone. That same relationship can be employed in equation (2.2) of the workpiece eclipse; that is:

$$X^2 = (a/b)^2 (b^2 - Y^2) = (b^2 - Y^2)\sin^2 q$$

When the substitution for X^2 is made by using the above equality, the original constants of the fourth degree polynominal are reduced to simple single term expressions in four of the five terms:

$$KA = \cos^2 q$$

$$KB = -2Y_0 \cos^2 q$$

$$KC = Y_0^2\cos^2 q + (HD/2)^2\sin^2 q - b^2$$

$$KD = +2b^2Y_0$$

$$KE = -b^2Y_0^2$$

R. Mory
Process Engineer
Gear Development Department
Ford Motor Trans. & Chassis Div.
Livonia, Michigan

NOTES FROM THE EDITOR'S DESK

The last two months have been both a time of difficulty and of growth for GEAR TECHNOLOGY. Unexpectedly, I found myself in the hospital, having surgery, and consequently out of commission for several weeks. At the same time, two individuals on our staff lost family members, and most of this period saw us getting ready for this preshow IMTS issue while being seriously short-staffed.

Problems, however, can often be turned into opportunities. We saw how well everyone pulled together to get the job done, each person extending themselves for others. G.T. has since added two new staff members, and we are now looking forward to continued growth in our work and in our industry.

September 3-11, 1986, the International Machine Tool Show will be held at McCormick Place Exposition Center. This show will be even larger than in years past, expanding to occupy over 2 million square feet. We will see a much needed improvement, a change of organization of exhibitors that will place manufacturers of similar lines in one area. Most Gear Equipment Manufacturers will be located in the new McCormick Place North. This should make your visit to the show easier and more productive.

As an added convenience to our readers, we have included a special index of our advertisers with *booth numbers and building locations. This index* will help you find the equipment you have been reading about. A preliminary index will appear in this issue, and next issue. Make your travel arrangements to Chicago early — this could be the biggest show yet.

Michael Goldstein
Editor/Publisher