



UNIVERSITY OF DAYTON  
DAYTON, OHIO 45469

SCHOOL OF ENGINEERING  
DEPARTMENT OF MECHANICAL ENGINEERING

April 27, 1977

Dr. H. Tracy Hall  
Brigham Young University High Pressure Laboratory  
Brigham Young University  
B-41  
Provo, Utah 84602

Dear Dr. Hall:

During my visit with you regarding our program to determine equilibrium phase diagrams of selected lubricants, we discussed the possibility of your assisting us in encapsulating lubricants in Indium capsules. We would like for you to furnish us ten (10) or twelve (12) such capsules and a simple die to produce more here at Dayton. The dimensions of the capsule must be  $.250 +.000 - .0005$  inch diameter by  $3/8$ " long. Please let us know when you can provide these, at your convenience of course.

You also mentioned possible sources for carbide parts when we need replacements. If you could suggest some sources for precision carbide parts, we would appreciate this information also.

I hope you are feeling well and enjoying further success. Also, best wishes to your family.

Sincerely,

A handwritten signature in blue ink that reads "Kurt C. Rolle".

Kurt C. Rolle  
Assistant Professor

KCR/mbw

40004491

H. Tracy Hall  
1711 No. Lambert Ln.  
Provo, Utah 84601

Kurt C. Rolle  
Assistant Professor  
Department of  
Mechanical Engineering  
University of Dayton  
Dayton, Ohio 45469

Dear Kurt:

I have received your letter of April 27th regarding the Indium capsules. I will start work today on making proper dies to make the 0.250 + .000 - .0005 inch diameter by 3/8 inch long capsules.

It always takes some experimenting to get the dies just right to do the job properly. I presume that the dimensions that you have given are outside dimensions. I will try to make the wall thickness 0.015 inch. It should take about a month to have the dies and capsules to you.

With regard to sources for tungsten carbide parts, I have had good success with the following:

Metal Carbides Corporation  
6001 Southern Blvd.  
Youngstown, Ohio 44512

Hydrocarbides Corporation  
P. O. Box 363  
Latrobe, Pennsylvania 15650

They may give you better service and price if you mention my name. I have been procuring carbide for my work from these companies for many years.

Best regards,

*H. Tracy Hall*

40004492