January 21, 1997

Prof. Leroy Cogger
Department of Physics and Astronomy
University of Calgary
2500 University Drive, N.W.
Calgary, AB T2N 1N4

Dear Leroy:

Here, at last, is an invoice for $2000 in relation to Polar Camera repair and refurbishment costs. I was so busy though the fall with our activities in response to the Small Payloads Program AO that I didn't take the time to work out my financial picture and generate an invoice. I am now getting to it, and can see that I will indeed need your help to stay in the black for this fiscal year.

Our response to the AO is, I think, a creditable one, and I believe it addresses the objectives of the SPP in innovative ways. We are proposing a rocket-borne experiment to measure ozone in the stratosphere and upper troposphere, which we think can lead into a micro- or small-satellite ozone monitoring experiment. The "we" includes eight graduate students, among them two from the MBA program who developed the management plan, and faculty from five departments and three Colleges here, as well as three senior employees at SCI-TEC Instruments, Inc., our industrial partner. We all learned a lot, which will be the legacy of the effort even if we don't get funded, but we're optimistic for at least Phase A support. I'll be happy to send you a copy of our proposal if you're interested.

As you probably know, I have finally applied for the Experimental Space Science position in Calgary. I should not have left it so late, but the AO response effort completely overshadowed everything else I'm supposed to be doing. With a team of 20 others depending on me to get the proposal finished off and sent on time, I didn't want to divert too much effort to other things, however important they were. Anyway, I got the proposal to Ottawa electronically, and the supporting documents off by courier at the end of last week, so I am now back into the groove, more or less.

I have begun to look at data from Eureka, especially for the period from Dec. 3-6 when a polar cap patch campaign was underway. Rick Doe of SRI was operating a U. Michigan CCD imager at the Resolute Bay PCO, and we are looking for arcs to which optical tomography might be applicable. So far we have one candidate, and I'm looking at the rest of the data to see what else is available. I am operating without the moonshade this year, as I think I mentioned, to increase the field of view

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in the direction of Resolute. The data quality appears to be good, and the first field calibration agrees with one I ran in the lab here before packing the Polar Camera up for shipment to Eureka. I'll be able to say more in a week or so.

Dorene joins me in sending our warmest regards to you and Marilyn.

Yours sincerely,

David P. Steele

Encl.