



August 7, 2015

Zhenxian Liu

Carnegie Institute of Washington
Geophysical Laboratory
Bldg. 741, NSLS-II
Upton, NY 11973-5000

Dear Dr. Liu,

Re: Proposal #: ALS-07250

Your proposal for an approved program at the Advanced Light Source on ***Infrared Spectroscopic Studies of Simple Molecular Systems under Extreme Conditions*** at BL 1.4 was reviewed by four external reviewers and by the ALS Proposal Study Panel. Their recommendations were further considered by the Scientific Advisory Committee. The relevant sections from the PSP reviews are as follows:

PSP RECOMMENDATION:

A New Proposal from Zhenxian Liu entitled “Infrared Spectroscopic Studies of Simple Molecular Systems under Extreme Conditions”.

The proposed IR high-pressure science is uniformly recognized by the PSP to be of very high quality and supporting the IR programs has been identified by the DOE as a research priority. The capabilities that will be provided at beamline 1.4 will bring important new research areas to ALS. The major concern of the proposal was the concept of “giving AP time” to GU proposals. Instead, it is understood that GUs should submit proposals, and if granted beamtime, and require access to the instrumentation provided by this AP, then it would be expected that the AP would support the GU. It is understood that there will be a conscious effort to schedule the GU close to the AP time.

The PSP recommends allocating 10% of the beam time at beam line 1.4 for 3 years.

SAC RECOMMENDATION:

SAC advises ALS management to proceed with implementing the conclusions of the PSP as formulated in their report.

I am pleased to accept this recommendation. Your AP status at 10% of the available beam time on BL 1.4 will be effective July 1, 2015, for a period of three years. I understand that



as part of this Approved Program, you will bring your custom-made high pressure IR microscope to the ALS for use by your team and other ALS users (including former users from NSLS, of course), and that you will support users on this instrument. As requested, we will schedule such users before and after your own beamtime. Your suggestion that up to 1/3 of your beam time would be available to general users is acceptable to get them started at the ALS, but they should be encouraged to write regular general user proposals.

Please login to ALSHub, the ALS User Portal (<https://alshub.als.lbl.gov>) to access the reviewers' comments, to track the beamtime allocated, and to update your safety documents.

Congratulations and best wishes for the continued success of your program at the ALS.

Sincerely yours,

A handwritten signature in blue ink that reads "Roger W. Falcone".

Roger W. Falcone
ALS Director

cc: Steve Kevan
Susan Bailey
Adriana Reza