**PX2 2017 Annual Report**

**COMPRES Facilities Comments**

**Bin Chen**

**(Conflict)**

**Arianna Gleason**

-Scientific needs of the user community are met by this facility.

-User base is broad and certainly opportunities for new users.

-Approach from the management team seems sensible. I really don’t see what was gained by this required 12.2.2 – PX^2 teleconference.

-I’m not in favor of an increase in the support of the GLF position from 50% to 100% -- maybe something like 50% to 75% would be possible?

-The nature of the host facility relationship and COMPRES seems strong and reasonable.

**Anne Pommier**

It is the only report that addresses point by point (in a convincing way) the recommendations from the Committee’s last year report. It really helps seeing clearly whether or not comments from last year were accounted for (maybe this could become a required section in the report template for next year?)

*-Science*: This facility is successful and developing very well, with very interesting geoscience studies. Most peer-reviewed papers are published in Earth science journals (focusing on subduction, hydration in the lower mantle, and elastic properties of Mw). 15 pubs are reported for this year, compared to 6 last year.

*-User community:* COMPRES users have a very good access to the facility (24 students users).

Students training will be offered as part of an upcoming workshop (July 2018 – EOID proposal to be submitted).

*-Management team:* More personnel required. The solution proposed (50 to 100% COMPRES support on the gas loading facility position) seems reasonable (now, is it feasible with COMPRES’ flat budget?).

Is the grad student intern (Yi Hu) still replacing a PhD level staff person? If yes, is this a long-term solution? (not clear to me)

Both PI Dera and Beamline scientist Zhang advertise the facility at meetings/workshops.

*-Facility:* Several improvements were made, such as the development of the laser heating system and the addition of a radiography/tomography camera. It seems that more development has been done this year than in the previous one.

It is good to see that the laser heating system (laser-heating system installed this year) will be available to users in 2018.

All these upgrades are exciting as they will benefit Earth science studies and will likely trigger creative investigations.

Budget looks reasonable. There was a comment last year about a significant increase in the fringe rate; this has increased highly again this year (from 50.9 to 58.1%). Why is it so?

**Mark Rivers**

Publications have increased. 10 out of 15 are earth sciences.

The need for increased personnel seems justified. PX^2 time on the beamline is 75-80%, not just the 50% that was originally envisioned. This is too much for 1 beamline scientist.

The proposal to support 100% of Sergey is clearly a COI for me so I will not comment on this.

I think the workshop with ALS is important so users can process data from either facility with each others software. It is important to avoid re-inventing the wheel on both collection and analysis.

**Dan Shim**

* **They appear to make good progress**
* **I am glad that they try to respond to our comments. For example, they made efforts to coordinate with 12.2.2. However, no apparent actions have been made to avoid redundancy.**