



November 30, 2017

Prof. Carl Agee  
President  
Consortium for Materials Properties Research in Earth Sciences  
University of New Mexico  
Albuquerque, NM 87131-1126

Dear Carl,

It is my great pleasure to supply this letter in support of the proposal to start an X-Ray Diamond Anvil Cell (DAC) Program at NSLS-II, as proposed by COMPRES Professors Jihua Chen of Florida International, John Parise of Stony Brook, and Kanani Lee of Yale. The proposal aims to establish a high-pressure DAC experimental capability at the XPD beamline and the infrastructure to facilitate the potential applications of DACs at several other appropriate beamlines at NSLS-II including IXS, HXN, CHX, SRX and HEX. The proposed activities align well with our five-year strategic plan, particularly in the area of studies of materials structures and functions under in-situ and operando conditions.

As you know, NSLS-II is a state-of-the-art, medium-energy storage ring designed to deliver world-leading intensity and brightness in a broad spectral range from far-IR to very hard X-rays. Our vision is to develop world leading scientific capabilities and leverage them to enable and conduct a broad range of high-impact, discovery class science and technology programs. Our strategy to achieve this vision is to integrate community interests, BNL research initiatives, and NSLS-II strengths and expertise to develop and conduct a suite of advanced science programs based on innovative technology and approaches to address the grand challenges facing society today as identified by the scientific communities.

At the COMPRES Workshop we both attended about a month ago, I was happy to see the exciting research within the COMPRESS DAC community and the great enthusiasm from the participants in establishing a DAC program at NSLS-II. Many good ideas were raised and discussed at the workshop. Here I would like to confirm our interest in working with the this community and the proposal team to pursue such a potential DAC program at NSLS-II, including exploration of a new partnership on DAC with COMPRES at multiple

beamlines as well as associated ancillary laboratory space to accommodate this program.

I look forward to working with you, the proposal team, and COMPRES to establish a highly productive high-pressure DAC program at NSLS-II.

With Best Regards,

A handwritten signature in black ink, appearing to read 'Shen', with a long, sweeping horizontal stroke extending to the right.

Dr. Qun Shen  
Deputy Director for Science  
National Synchrotron Light Source II  
Brookhaven National Laboratory  
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