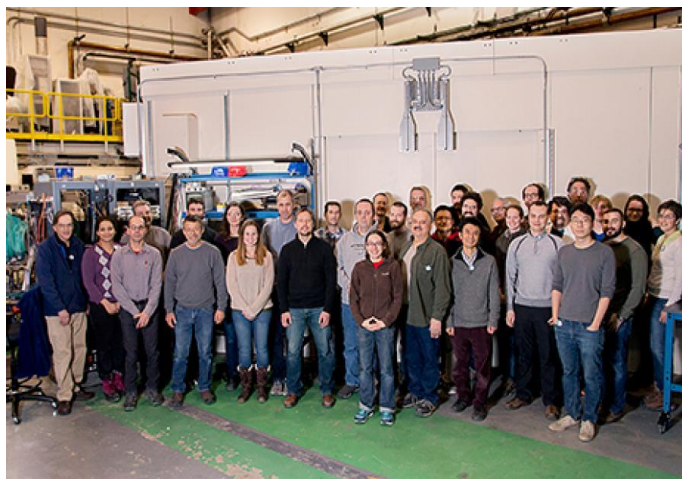




## Successful First Light in ID1A3 CHESS-U Hutch

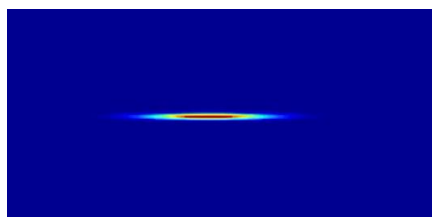
**Lansing, NY, February 16, 2018** – ADC is currently building a modular hutch design for the CHESS-U upgrade at Cornell University. The first hutch ADC delivered for CHESS-U, ID1A3, saw first light on January 31, 2018, only ten months after the contract was signed to pre-fabricate the hutch enclosures. The ID1A3 is an extension hutch to the F2 station and provides space for longer samples to detector distances which enables high-energy SAXS experiments; also allowing larger sample environments in addition to a hardened white beam capability ( $E > 50\text{keV}$ ).

ADC uses Lead/Steel for shielding in x-ray machines, nuclear power plants, labs, military equipment, and other places where radiation may be encountered. Some uses include lead/steel paneling, lead/steel walls, shielded doors, ceiling systems, wall design and other encapsulated enclosures for diagnostic and therapeutic uses. Prefabricated modular lead/steel shielded enclosures consist of free standing structural steel framed panels and doors.



CHESS-U Team

To reduce downtime, ADC's design allows for the quickest on-site installation as possible. To reach our installation goals, ADC has implemented a highly modular design consisting of major wall segments and ceiling segments (pictured below). The hutches are shipped as modular pieces after being fully assembled and tested at ADC.



First Light

The shielding is designed to be assembled from a self-supporting corner as the starting component. The first segment is placed individually and secured to the corner. After the initial segment is secured, the next segment slides into place using a tab-and-slot connection. Adjacent segments can be secured together via bolted connection at the top and bottom after establishing the tab-and-slot connection. Lifting points are placed in multiple locations to allow positioning by crane. The final assembly is bolted to the floor.

ADC will be delivering five more hutches to CHESS-U this year. At the completion of the upgrade, CHESS will be the premier synchrotron source in the United State for high-energy, high-flux x-ray studies.

For more information on ADC, please go to: <http://www.adcshielding.com>

For more information about ADC's hutches, go to: <http://www.adc9001.com/products/view/672>

To watch video, please go to: <https://youtu.be/Vkhl7BrMGZA>

