

News from the Center for Advanced Microstructures and Devices
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[Lorraine Day](#)

Greetings from the Deep South.

Our facility was badly hit by Hurricane Gustav which arrived on labor day. We lost a side panel and had twisted metal hanging from the under-roof superstructure. We were closed for about 10 days. Most of us were without power for 8-14 days - Quite uncomfortable in the hot and humid south. Gasoline powered generators maintained operation of some key CAMD facilities. Unfortunately, we had to quench our magnets since no liquid helium was available. Our normal liquid helium supplier's building was completely wiped off the face of the earth and we had to request liquid helium from Tampa, Florida. The remainder of our state was hit, by hurricane Ike along with the coastal portions of Texas. All in all it has been a difficult recovery, and many in Texas still have no electricity. We wish a speedy recovery to all of our friends in Texas, especially those in Houston, and in Galveston.

Many, nearly simultaneous, upgrades are occurring at the CAMD facility. We are moving forward with an upgrade to the Linac. As a result, there will be a 50% increase in energy with the committed power increase. Because of limited space in the Linac tunnel, it is necessary to bring the Linac Klystrons and their power supplies up to the experimental hall floor in order to accommodate the new accelerating portion. We are building a second tail on the NIM beamline. CAMD will have a helium recompressor soon, so that we do not have to rely on an external liquid helium supply of for our wiggler. It is interesting to note that with falling US markets, the value of the dollar also decreases. Therefore, we've had to make up shortfalls in some areas where we were trying to obtain equipment from Europe. There are also plans to increase the power of the superconducting wiggler. Enhancement proposals are also out for a new insertion device, a second RF cavity as well as a myriad of smaller projects. All of this must be accomplished in a very tight budgetary environment. The radiation safety budget has decreased by 29% for this fiscal year. I am currently writing grant requests. The grants will be needed to increase our monitoring capabilities and keep up with facility upgrades. The next nine to 12 months will be extremely busy and challenging.

Stay safe

Lorraine



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