

CHES Users' Meeting

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The 1993 Cornell High Energy Synchrotron Source Users' Meeting was held in Clark Hall on the Cornell campus on June 22 and 23. The activities of this annual review include: highlights of current synchrotron technology and synchrotron-based studies; the fostering of improved experimental practice through topical "workshops"; promoting technical exchange between users through the use of poster sessions and one-on-one contact; and the soliciting of feedback on the facility operations from the users.

Facility reviews included status reports on CESR from Karl Berkelman, on CHES from Bob Batterman, and on MacCHES from Steve Ealick. The developments in A1 and A2 stations were covered by Ken Finkelshtein and Joel Brock, respectively. Of course, the big development in 1993 is the coming back on line of completely rebuilt A1 and A2 beamlines and hutch facilities with enhanced light source intensity and tunability. Three CHES initiatives were also reported upon in the areas of real-time crystal growth, X-ray microbeam science, and heat loading of X-ray optics. The intent behind these initiatives is to create critical masses of experimental expertise and capabilities for general areas of investigation that are beyond a single users' resources to develop. They also help expand general synchrotron-based experimental capabilities. For example, the X-ray optics heat load effort will benefit not just CHES but also the Advanced Photon Source of Argonne.

The principal topic of discussion and concern during the User Group discussion was the state of current and future computer capabilities at CHES. Virtually everyone present has been very pleased with the intensity and quality of support from the CHES staff.

The workshop for this meeting provided a thorough coverage of the current state of the technology of 2-

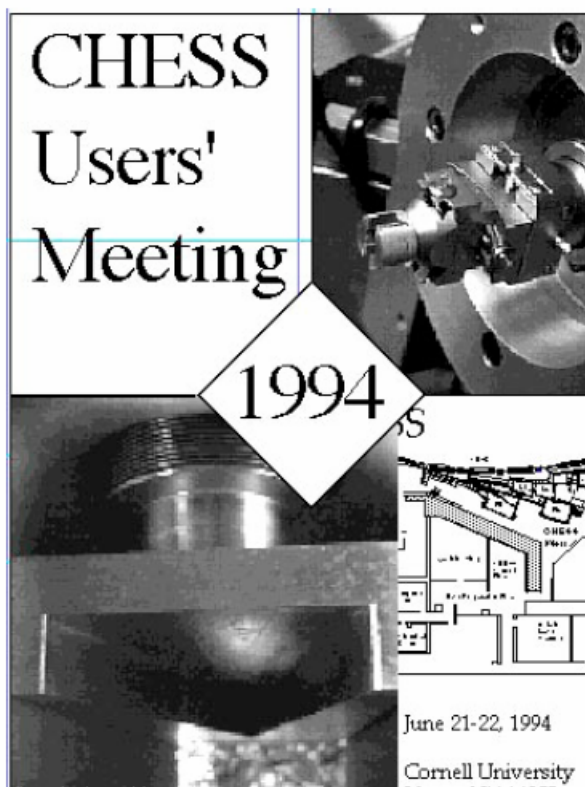
dimensional detectors, which is a critical issue for the future of synchrotron-based scattering experiments. Although high-intensity x-ray sources are becoming increasingly available, many potential experiments of significant value will be limited by the availability, capabilities, and software data handling of X-ray detectors.

Both the invited talks and poster presentations covered topics related to advanced hardware, microbiology, polymer scattering, scattering from



inorganic systems, and dynamic structure studies, all of which attest to the very high level and quality of the work afforded by having CHES as a user-friendly facility.

All are encouraged to attend the next CHES users' meeting, scheduled for June 21 and 22, 1994.



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1994

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