

Section 2

NATIONAL LASER USERS FACILITY NEWS

During the first quarter of FY89 NLUF activity consisted of supporting an experiment from **J. DeGroot's** group at the University of California at Davis (UCD). **K. Mizuno** from UCD and **P. Young** from LLNL collaborated with **W. Seka** at LLE to measure ion-acoustic-decay instabilities with the GDL laser. A series of CH, Al, Mo, and Au targets were irradiated with laser intensities of 10^{13} to 1.5×10^{15} W/cm² in the green (531 nm) and the optical spectrum around $3\omega/2$ was recorded with a streak camera and a time-integrating spectrograph. The data have been taken to UCD for analysis.

The Division of Plasma Physics of the APS meeting was held in Hollywood, Florida. Papers were presented by eleven different NLUF users at both the oral and poster presentations. The abstracts from these papers are in the *Bulletin of the APS*, Vol. 33, No. 9. Research topics covered included laser-plasma interactions, XUV and x-ray spectroscopy, x-ray lasers, high-density compressions, and radiation transport. All of the presentations were well received by conference attendees.

Proposals for FY90 are to be sent to the DOE San Francisco office. The deadline for submission has been changed from 15 December to a later date. Please address all technical questions to the NLUF manager at LLE and all administrative and proposal submission questions to Dennis Neely in the DOE San Francisco office. The DOE office has assured LLE that money for approved research will be available the first quarter of FY90.