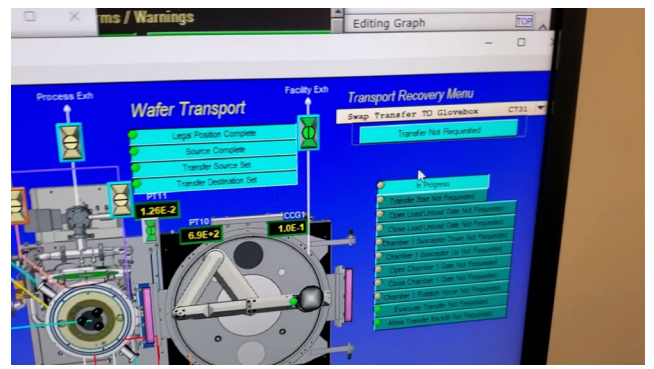
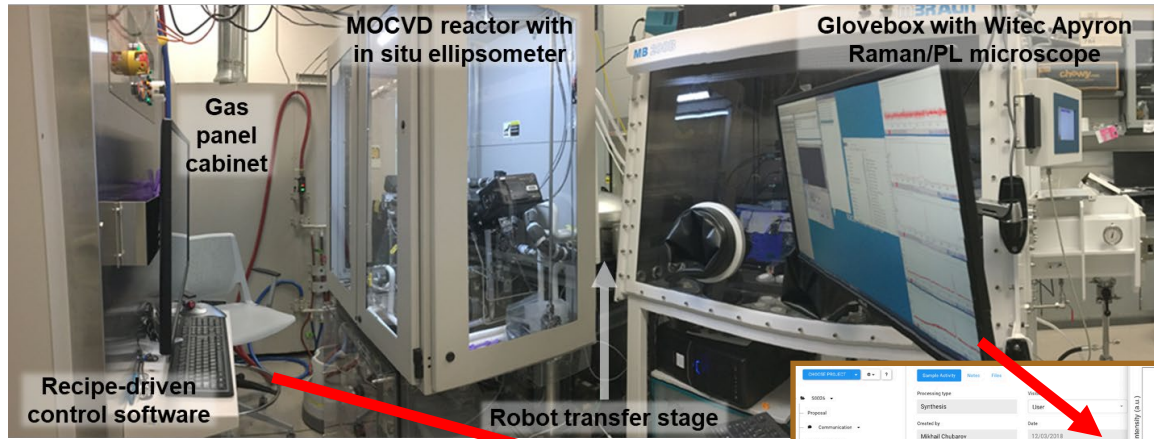


Ambient-controlled automated growth, wafer transfer and optical characterization of 2D materials

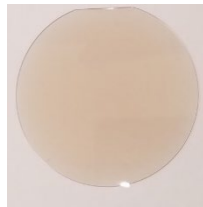
T. H. Choudhury, B. Huet, T. V. McKnight and J.M. Redwing (2DCC-MIP)

Multi-module system for metalorganic chemical vapor deposition (MOCVD2) and optical characterization of 2D layered chalcogenide films.



Automated robotic transfer stage moves substrate from growth chamber to glovebox for Raman and photoluminescence spectroscopy without sample exposure to air.

WSe₂ monolayer on 2" sapphire substrate



Automatic upload of process and spectroscopy data into Lifetime Sample Tracking (LiST) database

