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Dr. Khandekar will discuss two large projects that have involved the Analytical Laboratory of the Straus Center for Conservation, Harvard University Art Museums. The first is the re-restoration of a Donald Judd sculpture from 1965. In an earlier restoration, original cellulose nitrate paint was replaced with an acrylic paint, a replacement not approved by the artist. The original and replacement paints were compared, allowing an informed re-restoration of the Whitney work. The second is a technical examination of three works attributed to Jackson Pollock (1912–1956). The paintings were analyzed using Fourier transform infrared spectroscopy (FTIR), pyrolysis gas chromatography mass spectrometry (Py-GC-MS), Raman spectroscopy, Scanning electron microscopy energy dispersive x-ray spectroscopy (SEM/EDX) and laser desorption ionization time of flight mass spectrometry (LDI-MS-TOF) to determine the age and composition of the binding media and pigments that make up the paintings. All three were found to contain some materials unavailable prior to 1956. Also included will be a brief round up of analyses carried out by the Museum of Fine Arts and Orion Analytical of other paintings from the group of thirty-two recently discovered works thought to be by Jackson Pollock.