Betatron Phase Measurements in CESR, D. SAGAN, D. RUBIN, and S. GREENWALD - The betatron phase has been measured at the Cornell Electron/positron Storage Ring CESR by shaking the beam and observing the phase of oscillation at various detectors. From the phase measurements the betatron Twiss parameters can be calculated and this allows beta errors to be corrected. This technique has the advantage over the 'traditional' method of varying quad strengths in that there is no magnet hysteresis to limit the accuracy and reproducibility. Additionally, the phase method can be used even when there are significant orbit displacements.