Spacecraft Penetrator for Increasing Knowledge of NEOs (SPIKE) is a subsurface-probing asteroid lander in the form of a deep space solar electric propulsion orbiter. It does science that has never been done at an asteroid: seismology, and detecting subsurface volatiles and organics. Using penetrators at the end of a three-meter boom, the spacecraft is kept safe while providing ample power. The payload acquires data from 0.3-1 meter depth in a variety of locations, building up a detailed understanding of volatile and organic composition and mechanical structure, essential to planetary science, hazardous asteroid mitigation, and in situ resource assessment. Designed for small NEOs where SEP thrust exceeds gravity, SPIKE detaches mechanically, attains new orbit, and lands again, without requiring a chemical propulsion system, and heads to a second asteroid. SPIKE can be flown as a single low-cost mission, or several can be launched together to conduct in situ science at 5-10 asteroids.