Eric Appelmann, Aduro Clean Technologies:

Chemical recycling technologies are typically rather brutal and random, applying high temperatures to break down plastic molecules into processable sizes towards new plastics. As a consequence they turn a significant part of the carefully collected and sorted carbon into low-value fuel gas, and tend to leave a substantial fraction as underconverted polymer, which is often ending up being incinerated sooner or later, for instance by diversion to refineries. Under European regulations, those carbons that go to fuel are not counted as recycled and will not command any premium pricing, which undermines the financial viability of recycling as a whole.
That makes maximizing the fraction of waste plastic carbon that ends up as proper chemical feedstock a top priority, and that is where Aduro Clean Technologies' Hydrochemolytic Technology offers a big advantage. The conference paper will explain the background of this advantage and substantiate it with experimental data.