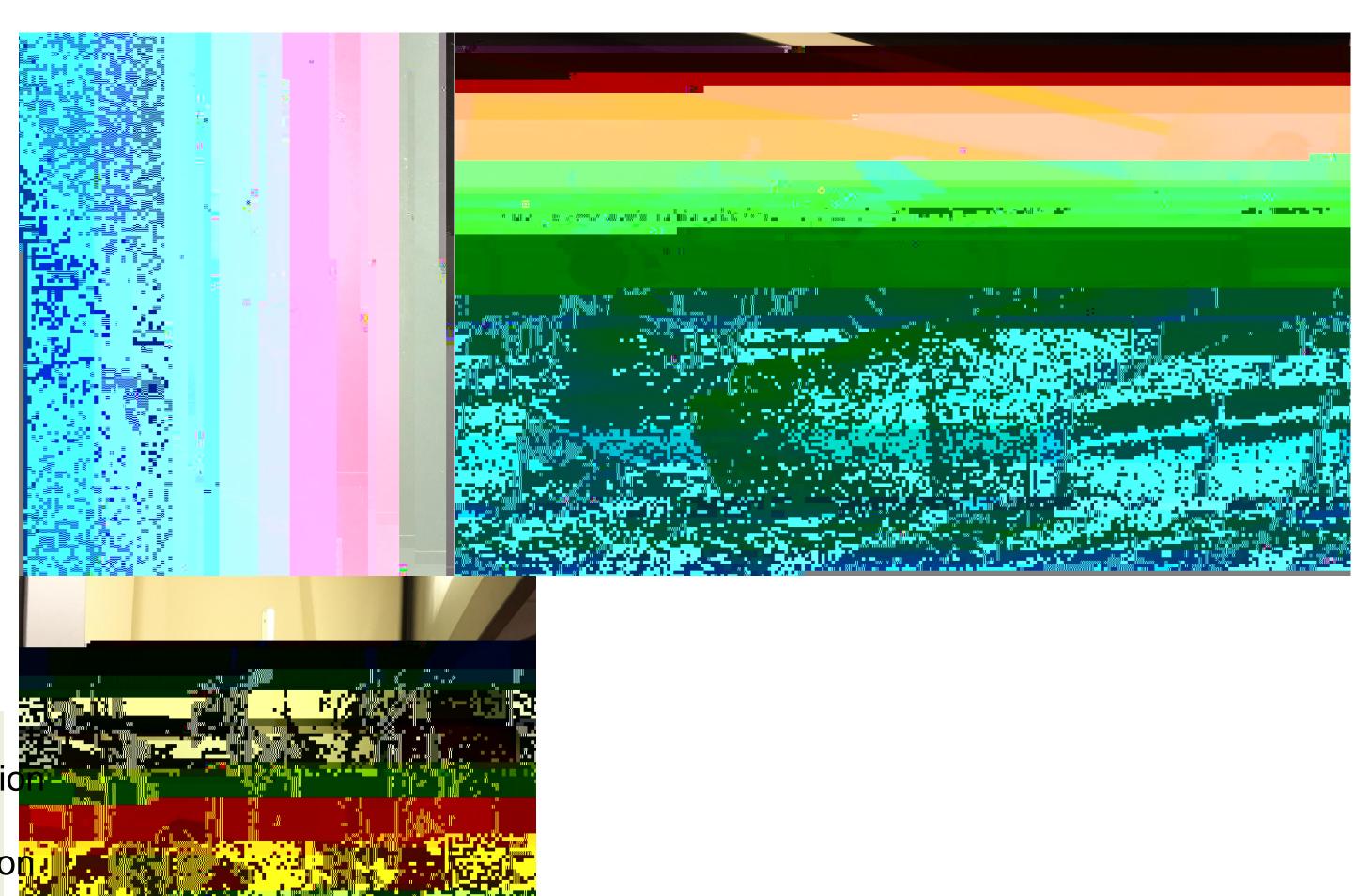


SURF 2016

Nitric Oxide Reactor for Conjugating Nitric Oxide to Polymeric Materials



Depts. of ¹Chemical Eng., ² Molecular and Cellular Biology, ³Mechanical Eng. ⁴ Industrial Eng.



Methods and Materials

- 1. NO reactor was built using stainless steel pipes, connectors, valves, pressure gauges, and a reaction vessel.
- 2. A system leak test was conducted by pressurization; with argon gas at reactor operating pressures.
- 3. A NO was scrubber was added to trap all exhaust from reactor.
- 4. PDMS polymers impregnated with additives was synthesized and then charged by placing them into NO reactor vessel to facilitate conjugation of NO to