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CHEM-E CAR: VITAWIN C

The Cooper Union Chem-E Car team developed a car that runs on a chemical reaction that travels a certain distance determined during competition.

A reaction between citric acid and magnesium carbonate produces carbon dioxide gas, which powers a pneumatic Lego engine and propels the car forward. The distance traveled by the car is controlled by a Vitamin C variation of the iodine clock reaction. At the AIChE Mid-Atlantic Regional Competition, the team car placed second by stopping within 0.3m of the desired distance. An updated version of the car will be competing at the 2018 AIChE Annual Student Conference.

