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PRODUCTION OF FUEL ETHANOL FROM CELLULOSIC PEAT FOR FUTURE TRANSPORTATION SYSTEMS

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2

The work into producing ethanol from peat and other cellulosic materials has begun with some very simple, first steps. In Mark Benvenuto's lab at UDM, graduate student Sathish Padi has initiated the straightforward production of ethanol using normal baker's yeast and simply starting materials such as sugar, corn syrup, flour, and rice. Results were as expected, resulting in ethanol after two days and ambient temperature with a sugar source. Somewhat more surprisingly, the others, including flour and rice did produce small amounts of ethanol given more time, still working at room temperature. Steps for the near future will involve using different yeasts, as well as sources including peat, peat moss, and other cellulosic sources.