The current consensus is that the universe is composed of a large amount of dark energy (DE), responsible for the accelerated expansion of the universe and a sizable amount of cold dark matter (CDM), responsible for structure formation. At present, the explanations for the origin or the nature of both CDM and DE seem to require physics beyond the standard model of elementary particle interactions. We shall present a scenario where CDM and DE can both arise entirely within the standard model. Quantitative agreement with the present data obtains without the need for any adjustable parameters.