training up the rising generation of farmers upon a sound foundation; and they would especially urge on farmers generally the importance of securing to their dark, it attracts their notice, and being agreeable to provided by such an institution."

The following observations by Earl Hardwicke, at the meeting of the Royal English Agricultural Society, are deserving the attention of our Canadian politicians. A difference in political feeling does not appear to prevent men in England from uniting for the public good:-

"They had the pleasure of seeing around them men of all shades of political opinion, who were united for one common object; and he took that opportunity of saving that, in his opinion, they were under the deepest obligation to their noble president, Earl Spencer, for having come to the manly resolution of refusing to accede to the demands of those who could have but little understood the nature and constitution of that society when they called upon him to resign his present position because he differed from them on a political question (cheers). Oh, what a state would this country be reduced to if there were no resting-place from party strife, no neutral ground where they could meet for the common good of the country (hear, hear). That neutral ground they had now got in this society -a ground where no political animosities were allowed to intrude; and they were deeply obliged to Lord Spencer for having had the manliness to confirm, by his determination, the spirit of the laws of the sosealing the destination of the society as a lasting and roots! enduring institution for the public good (cheers).

DESTRUCTION OF RATS.-Dr. Ure, F.R.S., commupoison for the above purpose, by an English gentleman resident in Germany. That preparation consisted essentially of phosphorus mixed with flour and sugar. It the purpose well; but there is a great difficulty in preas follows:—Melt hog's lard in a bottle plunged in bance in the crowded ranks of scientific as well as water heated to about 150° F.; introduce into it historical legends. half an ounce of phosphorus for every pound of lard, then add a pint of proof-spirit whiskey; cork the bottle firmly after its contents have been heated to 150°. taking it at the same time out of the water-bath, and agitate smartly till the phosphorus becomes uniformly diffused, forming a milky-looking liquid. This mixmay be poured off to be used again, for none of it en- other seasons. ters into the combination; but it merely serves to

children, intended for the same occupation, the great their palates and noses, it is readily eaten, and advantage to be d rived from the kind of education proves certainly fatal. They soon issue from their lurking places to seek for water to quench their thirst and bowels; and they commonly die near the water. They continue to eat it as long as it is offered to them, without being deterred by the fate of their fellows, as is known to be the case with arsenical doses. My friend in Derbyshire bought a pot of Mr. Meyer's ratpoison, and found it to be an analogous phosphoric preparation. The present mode of preparing it is the result of my own experiments, made with the view of diffusing phosphorus through a flour and sugar, &c., without the risk of fire."—The paper in the Society's Journal, ferred to by Dr. Ure, will be found in the third volume, page 428, and was communicated to the Society by Captain Stanley Carr, Tuschenbeck, near Lubeck, in the Duchy of Lauenburg. It may be an easy guide for those members of the Society who are desirous of following Dr. Ure's prescription, and may not have a thermometer at hand, to know that a temperature of 150° of Fahrenheit is equivalent to a degree of heat mid-way between that at which (according to Schubler) white of egg coagulates and wax melts.

Mr. Miles, M. P., stated the success with which Captain Carr's remedy for destroying rats had been tried by himself and others, in Somersetshire, and the extraordinary manner in which the rats came to

What a curious hallucination that is which supposes ciety, thus setting the question at rest for ever, and the SAP OF TREES TO FALL, or settle, in winter into the One would have thought that the notorious difficulty of cramming a quart of water into a pint measure might have suggested the improbability of such a phenomenon. For it certainly does require a very large amount of credulity to believe that the fluids nicated through Mr. Pusey, M. P., the following re- of the trunk and head of a tree can, by any natural sults of experiments on the best mode of preparing force of compression, be compelled to enter so narrow phosphorus as a poison for rats:—" In the Journal of a lodging as the root. The idea, however, has estathe Royal Agricultural Society there was published, blished itself insome persons' minds, and, we presume, several months ago, a prescription for preparing a in connection with that other old vulgar error, that the sap is in rapid motion in the spring time, in the roots of a tree, before it begins to flow in the branches.

These whimsies took their origin in days when the has been tried by a friend of mine in Derbyshire who world was contented to accept assertions upon trust, has a most extensive farm, and has been found to answer and when hypotheses and vain imaginings formed the debased paper currency of science. But now men paring it, from the insolutility and even immicibility of have found out the value of a golden standard, both phosphorus in water, attended with no little danger of for money and for knowledge; they call for facts before fire. The process I have found to succeed perfectly is theories; and the result, already, is a wonderful distur-

We shall assume the word sar to signify the fluids, of whatever nature, which are contained in the interior of a tree. In the spring this sap runs out of the trunk when it is wounded; in the summer, autumn, and winter, it does not, unless exceptionally, make its appearance. But in truth the sap is always in motion, at ture being cooled, with occasional agitation at first, all seasons, and under all circumstances, except in the will afford a white compound of phosphorus and lard, presence of intense cold. The difference is, that there from which the spirit spontaneously separates, and is a great deal of it in the spring, and much less at

When a tree falls to rest at the approach of winter, comminate the phosphorus, and to diffuse it in very its leaves have carried off so much more fluid than the fine particles through the lard. This fatty compound, roots have been able to supply, that the whole of the on being warmed very gently, may be poured out in-|interior is in a state of comparative dryness, and a to a mixture of wheat-flour and sugar incorporated large portion of that sap which once was fluid has betherewith, and then flavoured with oil of rhodium, or come solid in consequence of the various chemical not at pleasure. The flavour may be varied with oil changes which it has undergone. Between simple