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# Lichfield Science & Engineering Society

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LICHFIELD **GARRICK**  
*Theatre & Studio*

PRESIDENT

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**8:00 pm on Wednesday, 10th January 2018**  
**in the Studio Theatre of the Lichfield Garrick, Lichfield, WS13 6HR**

## The Paul Bettson Lecture **PRECISION FARMING**

**Professor Richard J Godwin**

PhD, DSc (HC), CEng, Fellow RAEng, HonFIAgrE

**Visiting Professor - Harper Adams University**  
**Emeritus Professor - Cranfield University**

Precision farming in arable agriculture attempts to manage the field and the crop in a spatially variable manner in order to meet the varying requirements of the crop. This is caused by variation in soil type and aspect, fertility and compaction levels; and the variation in weed and pest types. In doing so the farmer is attempting to optimize his crop yield and income whilst improving environmental sustainability. Over the past 25 years the ability to manage the crop at sub-field levels has been assisted by the development of accurate GPS systems, on-board computing power, automated vehicle steering and control, crop and soil sensors and variable rate application equipment.

Professor Godwin spent his career working in agricultural engineering, soil management and precision agriculture. In addition to his research and teaching, he has dedicated much time to transferring the principles to advisors and farmers to improve agricultural production systems, the sustainability of soils and the improvement of the environment. He was awarded the John Deere Gold Medal by the American Society of Agricultural and Biological Engineers for his "Distinguished achievement in the application of science and art to the soil" and was elected as a Fellow of the Royal Academy of Engineering in 2001.

This is the second lecture sponsored by Robina Bettson in memory of Paul.

For further information, please see our website at [www.LSES.org.uk](http://www.LSES.org.uk)  
Students and Members Free.

Visitors £5.00. Tickets are not issued in advance, please pay at the door.

Members must sign in. Those signing in before 7:50 pm will have precedence over all visitors.

This lecture is expected to finish by 10.00 pm.