

Institution of Agricultural Engineers



# 2017 YOUNG ENGINEERS COMPETITION

Can your team create a remote or radio controlled vehicle to tackle our competition track?

**TUESDAY 4 April 2017**

Kubota Training School, Kubota UK Headquarters, Thame, Oxfordshire

[www.iagre.org](http://www.iagre.org)

Sponsors

**Rexroth** **Kubota**  
Bosch Group



## INTRODUCTION

The Institution of Agricultural Engineers (IAgrE) is a professional membership organisation for all those working, or with an interest in, engineering, science and technology within agriculture and the environment.

We are one of the 35 professional institutions licenced to the Engineering Council, and encourage the benefits of a career in engineering – particularly within our sector which encompasses so many aspects of food production and the care of our most valuable natural resources.

Started in 2003, the IAgrE National Young Engineers Competition offers teams the opportunity to build a vehicle within a set of rules and to win significant prizes using a combination of engineering skill, strategy - and luck.

Since its inception the Competition has been staged at some of the country's leading engineering companies such as JCB, Jaguar, Aston Martin, Caterpillar and Greenmech who have all wholeheartedly embraced the competition objectives. They have always provided a warm and generous welcome and the opportunity to see their activities at first hand.

We aim to make the event both entertaining and educational, it is a great opportunity to meet other students and people in our brilliant industry, whilst possibly opening doors to future employment.

## ENTRIES

The competition is open to teams from Universities, University Technical Colleges, landbased colleges, school Sixth Forms, apprentices, manufacturers, dealerships - and other teams of interested young people. There is no charge for entering the competition.



## THE CHALLENGE

Given a set of standard wheels, a battery and maximum dimensions, teams will create a remote or radio controlled vehicle to produce the best performance on a standard track.

### Equipment

A kit of wheels and a battery will be supplied to registered teams, from any discipline, together with a drawing of the test track, which takes the form of a half-pipe with a peg-board running surface.

### Teams

Whilst any number may be involved in the vehicle construction, only two members will be allowed to attend the actual event. In view of the prestigious nature of the competition venues, we expect competitors and staff, to dress (smart casual) and conduct themselves in the manner of professional engineers.

### Classes

To accommodate entrepreneurial designs, there will be two classes:

**Class 1** for those entries meeting the design criteria.

**Class 2** For those not meeting the design criteria.

Please note, the required dimensions (as in 1 above) are obligatory in all cases. But nevertheless deemed eligible to compete by the judges.



## AWARDS

A Prize Fund is provided by the Institution of Agricultural Engineers (IAgrE). Our generous sponsors, notably Bosch Rexroth, additionally provide tools as prizes which together with the cash rewards make the event really worthwhile for those prepared to make the effort. Plus . . .

- FREE IAgrE Student membership for competitors.
- CERTIFICATE of participation for each student.
- CERTIFICATE of participation for each college.
- PLAQUE for winning college presented at IAgrE Awards Ceremony.

## 2016 COMPETITION

The 2016 Competition was staged at the manufacturing facility of agricultural sprayer specialist Knight Farm Machinery in Rutland. Class winners were a team from ProVQ (the John Deere apprentice training provider) with their "Green Monster" machine, and the Hartpury College team with the "GH&S" entry.

## 2017 COMPETITION

DATE:

**TUESDAY 4 APRIL 2017**

VENUE:

**TRAINING CENTRE. KUBOTA UK, Thame, Oxfordshire**

The 2017 event will be held at the state-of-the-art training centre of Kubota, one of the world's leading manufacturers of tractors, construction equipment, grounds care machinery and engineers. Newly extended and revamped, the centre was recently voted the best industry training facility in the UK by the British Agricultural and Garden Machinery Association (BAGMA).





## **FURTHER INFORMATION AND COMPETITION PACK**

Sarah McLeod  
01234 750876  
[secretary@iagre.org](mailto:secretary@iagre.org)

### **Institution of Agricultural Engineers**

The Bullock Building  
University Way  
Cranfield,  
Bedford MK43 0GH  
[www.iagre.org](http://www.iagre.org)