

Institute of Archaeologists of Ireland

Event title: Unmanned Aerial Vehicles – regulations, devise and usefulness for archaeologists

Date: Friday 17th May 2019

Venue: Knowth House, Brú Na Bóinne World Heritage Centre, Co. Meath

Trainers: **John Lalor (Senior Photographer, National Monuments Service)**
Dr. Steve Davis (School of Archaeology, University College Dublin)
Dr. Paul Naessens (University College Galway/ Western Aerial Survey and Photography Services)
Paul Houston (Drone Media Ltd.)

Introduction

This one day training workshop offers the participant an opportunity to learn about advances in aerial photography and a rare opportunity, with the kind permission of the Office of Public Works and Clare Tuffy (Manager of Brú Na Bóinne), to operate a UAV/ drone under expert tutelage in a training environment in the land surrounding Knowth Megalithic tomb in Brú Na Bóinne World Heritage Centre.

The workshop is an afternoon/evening event with a short series of papers relating to aerial recognizance and highlighting some new discoveries in Brú Na Bóinne in terms of image capture and the advantages of traditional photography coupled with UAV imagery. The merits of UAV's in terms of image capture will be addressed for other parts of the country. Finally, participants will be introduced to the rules and regulations that govern UAV's usage as well as learning about the types of UAV's that are available and what might best suit the archaeologists needs. This course is of use for archaeologists with an interest in the archaeology of Brú Na Bóinne, for archaeologists who may be thinking of purchasing a UAV so that they are familiar with best practice and professional/legal guidance and for archaeologists who may need to commission UAV operators to undertake survey projects.

The second half of the workshop will be a practical UAV flight session that will take place once the World Heritage Centre is closed to visitors from 6pm.

Learning Outcomes

On completion of this workshop, the participants will:

1. have a better understanding of the types of UAV's available and what regulations apply to their usage
2. be familiar with basic flight instruction and will have operated a drone, in a controlled training environment

Programme

13.30-13.50	Registration
13.50-14.00	Welcome
14.00-14.30	Dr. Steve Davis will discuss the role of aerial photography and the way aerial survey adds to our archaeological knowledge
14.30-15.00	John Lalor will discuss the role of traditional aerial photography alongside the data captured from UAV's in the context of Brú Na Bóinne
15.00-15.30	Dr. Paul Naessens will discuss the usefulness of UTM's and images captured using case studies from the west of Ireland
15.30-16.15	Kevin Houston will outline the rules and regulations of operating a UAV and practical guidance to operating different types of UAV's.
16.15-16.30	Discussion (further discussion during practical instruction)
16.30-17.30	Tea/Coffee in Newgrange Farm and Coffee Shop (included) food is not included (range of sandwiches with soup)
17.30-18.00	Introduction to use of UAV/ drones
18.00-20.00	Practical flight time under expert tutelage

Registration:

Members can book their place on this course, by completing the Registration form in the Members Section of the IAI website. An option to pay the course fee via paypal is also available in the Members Section.

Course fee:

Members	€30
Non-members	€40
Students/ Associate	€15

Please note: Course fee include tea/coffee at Newgrange Farm, food is not included)

Parking facilities

Public parking is available at the venue at Knowth House, across the road from Knowth megalithic tomb

Please note: We will allocate places on a first come first serve basis.

Drone (UAV) flight session may be affected in the event of adverse weather conditions, if adverse weather occurs, the cancellation of this part of the session will be beyond IAI's control.

Parking is available at Knowth House, where the formal presentations will take place.

We would like to thank the Office of Public Works for granting permission to carry out the drone flight training on the World Heritage Site. As such we would ask all participants to adhere to instruction given from trainers that reflects the management of the World Heritage Site.