



**Institute of
Archaeologists
of Ireland**



**Institute of Archaeologists of Ireland (IAI) in partnership with
Irish Geological Association (IGA)**

Event title: Rocks Used by Our Ancestors

Date: Tuesday 10th, 17th, 24th November and 1st December 2020 from 7-8pm

Venue: Online delivery via Zoom (Invite only: Advance Registration essential)

Trainer: Prof. Ian Sanders (Fellow Emeritus, Trinity College Dublin)

The IAI are delighted to offer a suite of four one-hour online lectures in partnership with the Irish Geological Association on the theme of Archaeology and Geology. The topic of the sessions is *Rocks Used by Our Ancestors*. The series of four lectures aims to show how the stone materials used in the artefacts, monuments and buildings of antiquity can be identified, and to explain in non-technical language the geological background to the formation of those stone materials.

Prof. Ian Sanders is with the Department of Geology at Trinity College Dublin since 1971, following his B.A. and PhD studies at Cambridge University. His current research is focussed on the early years of the Solar System inferred from meteorites. His teaching interests include the promotion of geology in schools through the free distribution of rock samples.

Having attended this CPD series of lectures, the participants will be able to-

1. Describe the appearance and state possible distinguishing features of examples of the following kinds of rock. Sandstone, mudstone, shale, limestone, conglomerate, gypsum, flint, chert, vein quartz, basalt, dolerite, gabbro, andesite, granite, obsidian, tuff, slate, schist, porcellanite, quartzite, marble, soapstone.
2. Outline the mode of formation of the above rocks and show in simple diagrams (a) the paths followed by rocks as they are changed from one kind to another by processes on and beneath the surface, and (b) how some igneous and metamorphic rocks have origins linked to plate boundaries.
3. Name the geological eras and periods, state in millions of years the time elapsed since the formation of the solar system and of the 3 eras, and state the principles of measuring the age of granite by the uranium-lead method.

4. State how information is depicted on the geological bedrock map of Ireland, and outline the main stages in Ireland's geological history, mentioning how its topographic elevation, plate tectonic setting and latitude changed through time.

Registration:

Advance Registration is essential to secure your place. Participants must register before Friday 6th November 2020 COB. Late registrants will not be granted access.

Participants can register by emailing - iaiarcheology@gmail.com and confirming their attendance.

The lectures will be delivered via the Zoom platform run by IGA.

N.B. By registering to attend the lectures, participants are giving their consent to IAI to share their email contact details on a one-off basis with IGA, to generate an invitation to grant you access to the webinar. Your email address is the only data to be shared and will be destroyed immediately after the session and not shared with any other parties.

This is a **free event to attend**, courtesy of IAI and IGA.

Registration is limited to IAI members and place will be allocated on a first-come, first-serve basis.