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Professor Javier Alba Tercedor, of the University of Granada's Department of Zoology, was presented the award for his film titled "Micro-CT anatomical study of a female aquatic beetle (Insect: Coleoptera) of the genus Dryops". The video is available at http://sl.ugr.es/01Hd

Tomography is a non-invasive widespread technique used by the scientific community, especially in the field of medicine. Micro-CT generates highresolution images, and no alterations have to be made to samples; consequently, valuable specimens can be studied without causing any harm

Several projects and European funding have allowed large equipment purchases. In late 2007, the University of Granada acquired the highresolution microtomograph Skyscan 1172. Since then, Professor Alba Frame from the award-winning film, Tercedor has mastered the use of the tool and has obtained very satisfactory results. In 2010, he was awarded the Best Image award at the SkyScan Micro CT Meeting.

A Technique with Many Possibilites

an anatomical study of a female

aquatic beetle

At present, Professor Alba affirms to be "a microtomography enthusiast," as it offers many innovative possibilities. His research studies have been published in prestigious journals, and have revealed anatomical aspects so far unknown. In addition, his research has elucidated a set of controversial aspects, such as why some beetle species can fly by day, while other only fly by night or under low temperatures (study published in the journal Plus One $available\ at\ http://sl.ugr.es/01He\);\ he\ also\ solved\ the\ question\ about\ the\ defensive\ or\ structural\ function\ of\ the\ small\ properties of\ the\ small\ properties\ properties\$ needles (spicules) that some sea slugs have in their inside (published in Microscopy and Analysis, available athttp://sl.ugr.es/01Hf).

The University of Granada has acquired a micro-CT that can be fitted to a sweep electron microscope and generates images of 0.5 microns. Videos made using this technology are available at: http://www.youtube.com/user/albatercedor).



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