

Using photosynthesis for direct electricity production in biological solar panels



Prototype bus shelter, Cambridge University Botanic Garden

Dr Paulo Bombelli
University of Cambridge Department of Biochemistry

Dr Bombelli's research centres around exploiting photosynthetic processes for the direct generation of electrical power. He has pioneered the development of biological versions of photovoltaic panels, which he calls 'biophotovoltaic' (BPV) devices. Collaborations with designers have been established in order to embed BPV technology into everyday items, resulting in the moss table, the moss FM radio and a prototype 'green bus shelter' at the Cambridge University Botanic Garden. Although these devices have attracted much interest, power densities are not yet high enough for them to be applicable for large-scale power generation. Possible strategies for increasing power output will be discussed.

Thursday, 2 July, 2015
CAR Offices, 25 Gwydir Street
Drinks from 5.30 p.m. Talk at 6.00 p.m.

Please let Anna know by Wednesday, 1 July, if you will be attending (anna.petrosyan@carltd.com).