



Serie de seminarios
Departamento de Fisiología, Biofísica y Neurociencias

jueves 28 de abril de 2022
12:00 horas

Prof. Lars Chittka
Queen Mary University of London

Presencial: auditorio de la Secretaría Académica.

Transmisión: canal oficial del Cinvestav en Youtube.

Contacto: fanis@fisiocinvestav.mx

Seminar title:

THE MIND OF A BEE



LARS CHITTKA



Departamento de
Fisiología, Biofísica
y Neurociencias

“Bees have a diverse instinctual repertoire that exceeds in complexity that of most vertebrates. The richness of bees' instincts has traditionally been contrasted with the notion that small brains allow little behavioural flexibility and learning behaviour; however bees count, pay attention, make simple use of tools, learn by observation and “know” their own knowledge, allowing for the study of consciousness-like phenomena in bees.

How are such capacities implemented at a neuronal level in the miniature brains of insects?

Using computational models of the bees' visual system, we explore whether seemingly advanced cognitive capacities might 'pop out' of the properties of relatively basic neural processes in the insect brain's visual processing area, and their connection with the mushroom bodies, higher order learning centres in the brains of insects.”