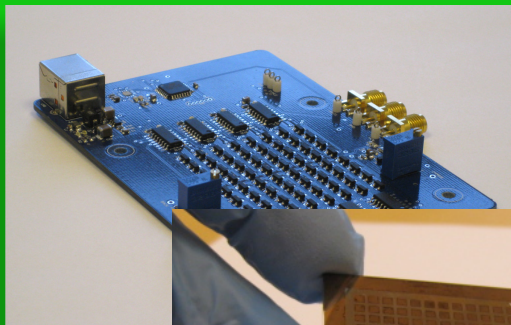


**ENSOL AS**



# LaNNDe

## Lanthanide-based Nanocomposite solid-state Neutron Detector

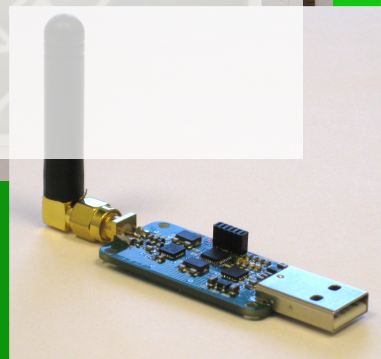
400 nm

**L. Claudia Gomez Aguirre**  
**Phil M. Denby**

**ideas**  
Integrated Detector Electronics AS

**IFE**  
Institute for Energy Technology

**Forskningsrådet**



- Small, founder owned **Bergen** based **Nanomaterial Engineering & application** development company (Est. 2009).

- Expertise in thin-film **process technology** & specialist **instrumentation** development.

- **R&D** activities include:

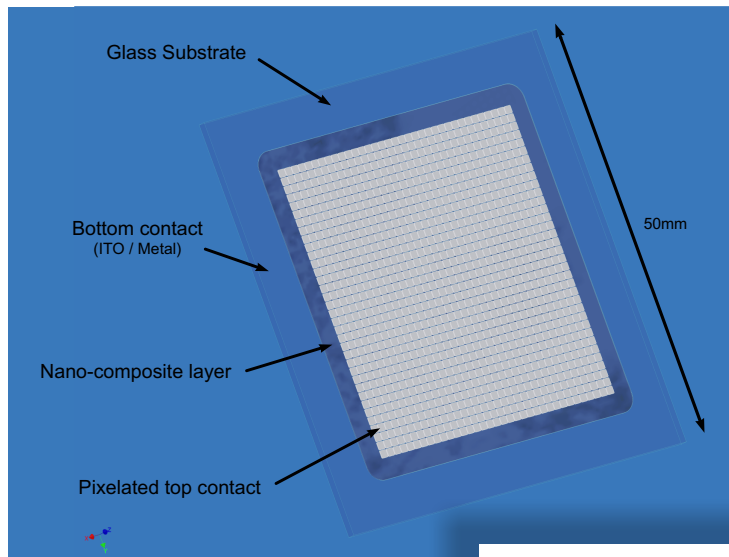
Nanoparticle **source upscaling**.

Nanoparticle enhanced thin-film **Photo-Voltaic cell**.

Nanocomposite based Neutron **radiation detector**.



# LaNNDe Project



**Objective:** Develop an efficient solid-state pixelated neutron detector, using Physical Vapour Deposition techniques for the production of a Lanthanide-based nanocomposite active matrix.

Norwegian Research Council assisted project. In collaboration with IDEAS, Bergen University Hospital & IFE.

