

# III Jornada Científica en el marco del proyecto

## ÓXIDOS AVANZADOS PARA LA PLASMÓNICA: APLICACIONES EN FOTODETECCIÓN EN EL INFRARROJO MEDIO

(PROMETEO/2021/066)



Valencia, May 30th – June 1st, 2023

Department of Applied Physics and Electromagnetism (University of Valencia)

### SPONSOR

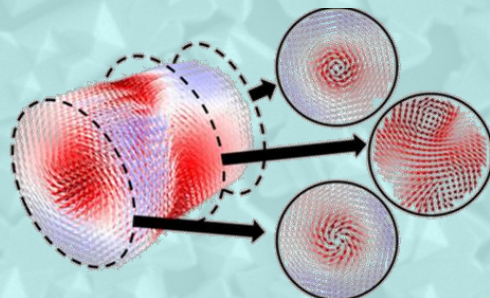
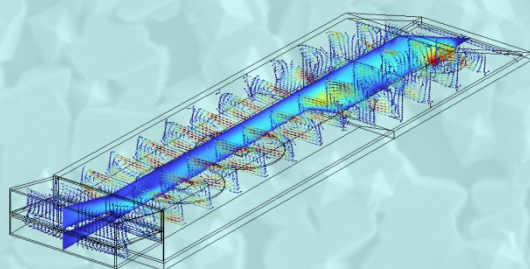
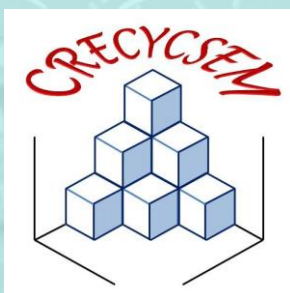


#### Coordinación

Vicente Muñoz Sanjosé

#### Comité organizador

Carmen Martínez, Carolina Fernandez, Javier Yeste, Oleksii Klymov, Eduardo Aznar



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The group of crystal growth and characterization of semiconductors (CreCYCSem) is formed by researchers from the Department of Applied Physics and Electromagnetism of the University of Valencia, in collaboration with researchers from the Polytechnic University of Madrid, University of Valladolid and GEO3BCN-CSIC (Barcelona). The research activity of the group focuses on:

- Crystal growth of advanced materials, both in volume and in the form of layers and nanostructures, using different techniques (MOCVD, Mist-CVD, SP, PVT, THM, Bridgman...)
- Morphological and structural characterization (SEM, HRTEM, HRXRD...)
- Characterization of physical properties, particularly optical properties and defects.

### Lectures Crystal Growth I

By Prof. Roberto Fornari (University of Parma)

May 30<sup>th</sup>, 2023

14:30-14:45 – Welcome and Conference Introduction

14:45-15:45 – Thermodynamics for Crystal Growth

15:45-16:30 – Questions and Discussion

16:30-16:50 Pause

16:50-17:50 – Melt growth and technology for single crystal production

17:50-18:30 – Questions and Discussion

May 31<sup>st</sup>, 2023

10:15-11:15 – Single crystal growth from solutions and from vapour phase

11:15-12:00 – Questions and Discussion

12:00-15:00 Pause/Lunch

15:00-16:00 – Crystal planes and interface kinetics

16:00-17:00 – Questions and Discussion

June 1<sup>st</sup>, 2023

15:00-16:00 – Fundamentals of epitaxy

16:00-17:00 – Questions and Discussion

17:00-17:30 Pause

17:30-18:30 – MOCVD and ALD with examples

18:30-19:30 – Questions and Discussion

URL:

<https://uv-es.zoom.us/j/98604428897?pwd=TmVRU2pMdkljUDdzQ2tacVZhUIBZZz09>