

### Workshop Organization

Grupo de Ingeniería Fotónica de la Universidad de Alcalá (GRIFO)  
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Grupo de Sensores Optoquímicos y  
 Laboratorio de Fotoquímica Aplicada



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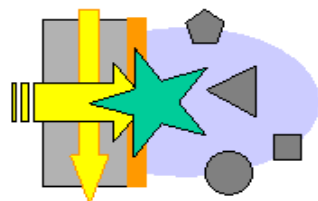
Grupo de Control Veterinario  
 Microbiológico



Grupo de Físicoquímica  
 de Superficies

  
**II FUTURSEN**  
**International Workshop**  
 Project CM S-505/AMB/00374  
**Advanced (bio)sensors for water analysis**  
**February 8th, 2008**  
**University of Alcalá**  
 International Conferences Hall  
 University Rectorate  
 Plaza de San Pedro y San Pablo s/n  
 Alcalá de Henares (Madrid)  
  
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## Workshop Schedule



### Morning session

09:00 Welcome address

Prof. Guillermo Orellana (FUTURSEN General Coordinator),  
Prof. Óscar Esteban (Local Coordinator)

09:15 Prof. Dr. Bo Liedberg

(Div. of Molecular Physics, Linköping University, Sweden)

*Surface modifications for biosensing and microarray applications*

10:15 Dr. Anna G. Mignani

(Institute of Applied Physics, IFAC-CNR, Florence, Italy)

*Spectroscopy-based optical fiber and micro-optic sensors*

11:15 Coffee break

11:45 Dr. Martin Eickhoff

(Walter Schottky Institute, Munich, Germany)

*Biochemical Analysis using Group III nitrides*

12:45 Prof. Dr. Antonio Flores Moya

(Faculty of Biology, University of Málaga, Spain)

*Photosynthesis and its measurement: a complex process with multiple signals ideally suited to biosensors*

13:45 Informal Lunch

### Afternoon session

15:00 **Álvaro Navarro** (Semiconductors Development Group, Institute of Optoelectronic Systems and Microtechnology, POLYTECHNICAL UNIVERSITY OF MADRID)

*Advances in UV-VIS light detection using Group III Nitrides-based sensors*

15:30 **Dr. Antonio Arranz** (Surface Chemical Physics Group, Department of Applied Physics, Faculty of Sciences, AUTONOMOUS UNIVERSITY OF MADRID)

*Surface analysis techniques in chemical optosensor characterization: some examples*

16:00 **Mónica Rouco** (Veterinary Microbiological Control Group, Dpmt. of Animal Production, Faculty of Veterinary Medicine, COMPLUTENSE UNIVERSITY OF MADRID)

*Genetic procedures to achieve specificity in microalgal biosensors for water analysis*

16:30 **Dr. Elena M. Peña** (Chemical Optosensors – Laboratory of Applied Photochemistry Group, Dpmts. of Organic Chemistry and Analytical Chemistry, Faculty of Chemistry, COMPLUTENSE UNIVERSITY OF MADRID)

*Microalgal biosensors for pesticide analysis using sol-gel technology*

17:00 **Dr. Elena Benito-Peña** (Chemical Optosensors – Laboratory of Applied Photochemistry Group, Departments of Organic Chemistry and Analytical Chemistry, Faculty of Chemistry, COMPLUTENSE UNIVERSITY OF MADRID)

*Evaluation of different formats in polymer molecular imprinting for antibiotic residues analysis in water*

17:30 Concluding remarks and outlook

17:45 Visit to the University of Alcalá Photonics Engineering Group (GRIFO) facilities at the Polytechnical School (*optional*)