Stand 10

## Renac

*RENAC- Network for the application in materials and products for Construction and habitat.*

RENAC is the Spanish Network for application of nanotechnology in construction and Habitat products. It has been established as a scientific and technological platform that primarily intends to overcome fragmentation of costly research effort by integration and generation of a knowledge base for the construction sector to meet EU objectives (sustainable development, social cohesion).
The final objective is to facilitate industrial explotation and improve the competitive position and employment prospects of the construction and habitat sectors.
RENAC integrates at this moment 18 groups from the Technological and Scientific Valencian Community in Spain. The multidisciplinary expertise comes from the integration of Technological Institutes groups dealing with research in different traditional materials (wood, plastic, concrete, ceramic, stone, metal) with University esearch groups with a recognised excellence in nanoscience fields such as interface science, nanoparticles, photovoltaic nanomaterials, nanocomposites, mesoporous materials, chemical sensors, and polymer science.

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Stand 12

## Schaefer Technologie GmbH

Schaefer Technologie GmbH supplies industrial and academic researchers in the field of nanotechnology and surface engineering with innovative and affordable surface metrology instruments. Founded in 1963, the company is well-known for its strong technical emphasis, thorough attention to quality, and superior price/performance value in all its products.
The product spectrum ranges from scanning tunneling microscopes/ atomic force microscopes for school and university education, portable AFMs and semi-automated systems for industry to complete UHV STM/AFM systems (Beetle™ design) for high-end research. Among other products available are SPM control systems and accessories.

Rapid high-resolution measurements of any surface are made with optical profilometers. Confocal profilometers, with the high numerical aperture of the objectives used, make it possible to produce reliable images of steep flanks (> 70 degrees). White-light or phase-shift interferometers, with their high z-resolution, are particularly suitable for smooth surfaces.

Nano- and micro-testers are available for characterisation of nanocoatings and nanostructures and the mechanical parameters of materials.

New insights into the world of nanoparticles are offered by the Nanosight LM10 module, which allows individual determination of particle sizes down to a diameter of 10 nm in suspensions without extensive sample preparation.

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