

ABOUT IMB-CNM

The Institute of Microelectronics of Barcelona (IMB) of the National Microelectronics Center (CNM) is a research center of the Spanish National Research Council (CSIC).

Its main activity is research and development on semiconductor-based micro- and nanoelectronics, more specifically, in the field of micro- and nano- integrated systems.

It has a Micro and Nanofabrication Clean Room with a surface of 1.500 m², recognized as a Unique Science and Technology Infrastructure (ICTS) by the Ministry of Science, Innovation and Universities.

The Clean Room has fabrication capabilities for CMOS integrated circuits or chips, microsystems, nanodevices, power devices, sensors, radiation detectors, transducers...



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ZENON NAVARRO MICROELECTRONICS EXHIBITION AREA

INSTITUTE OF MICROELECTRONICS OF BARCELONA



Microelectronics is one of the main engines of the world's economical and social development since the mid-20th century.

It is a global phenomena demonstrated by the countless electronic devices surrounding us, such as computers, cell phones, pacemakers and washing machines; as well as applications, such as the Internet, digital music, new medical systems and safer and more efficient transportation.

The evolution towards nanometer-scale devices will further increase this key position in the future.

WHY HERE?

The Exhibition Area has been created to make micro and nanoelectronics known to the general public, by showing what silicon chips are, how they are made and which are their applications. It shows equipment and processes used for the design, fabrication and measurement of integrated circuits and microsystems.

The equipment on display has been used at IMB-CNM for its research and development activities.

The Zenon Navarro Microelectronics Exhibition Area strives to be a history witness for the microelectronics evolution in Catalonia and Europe, a place open to everyone.

CONTENTS

- Wafers and chips processed at the Clean Room.
- Real equipment used for chip fabrication and measurement in the Micro and Nanofabrication Clean Room.
- Material showing and describing the fabrication processes in a Clean Room.
- Samples of devices developed at the Institute of Microelectronics of Barcelona.
- Posters and original layouts showing how the first integrated circuits had to be designed.

You can also walk inside the Micro and Nanofabrication Clean Room in our Virtual Tour!



Check the distribution of the equipment on our site



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The materials in this space were renewed with the collaboration of Fundación Española para la Ciencia y la Tecnología (FECYT)

DEDICATION

The Exhibition Area is dedicated to the physicist Zenon Navarro (1947-2007) who, in the early 1980s, was involved in the development of the UAB Clean Room. Later, he led the design and construction of the IMB-CNM Clean Room and managed its operation and some of its technological processes.