



Centro Internacional de Física

Bogotá, Colombia

COMSATS meeting, Cairo 2017

Eduardo Posada
Director

Research Groups

- **Biophysics:**

 - Tropical diseases: Leshmaniasis
 - Neurosciences: Mechanisms of vision in insects



- **Environmental biotechnology:**

 - Strategies for mitigating the impact of climate change in agricultural regions



Research Groups

- **Materials science**

Study of the
transport
properties of
superconducting
thin films
Laser annealing of
thin films



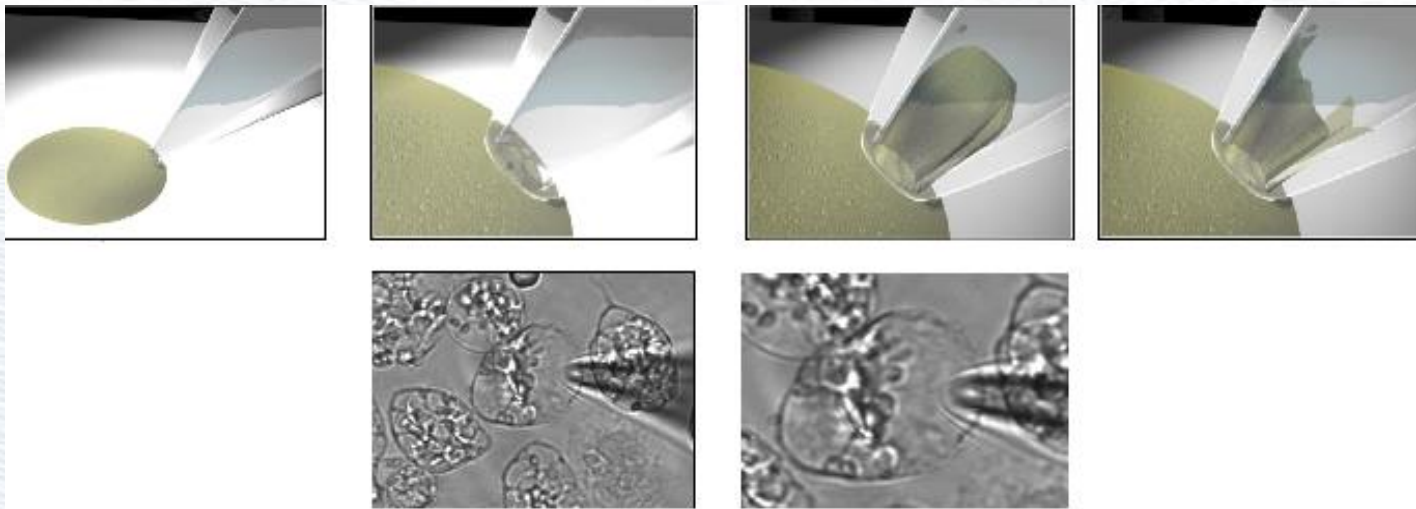
Research Groups

- Applied Physics and instrumentation
 - Development of solutions for industrial problems
 - Great experience in the electrical sector
 - Development of solutions for reduction of energy consumption in the public sector



Some products already available

- Patent for improved Leshmaniasis treatment



Some products already available

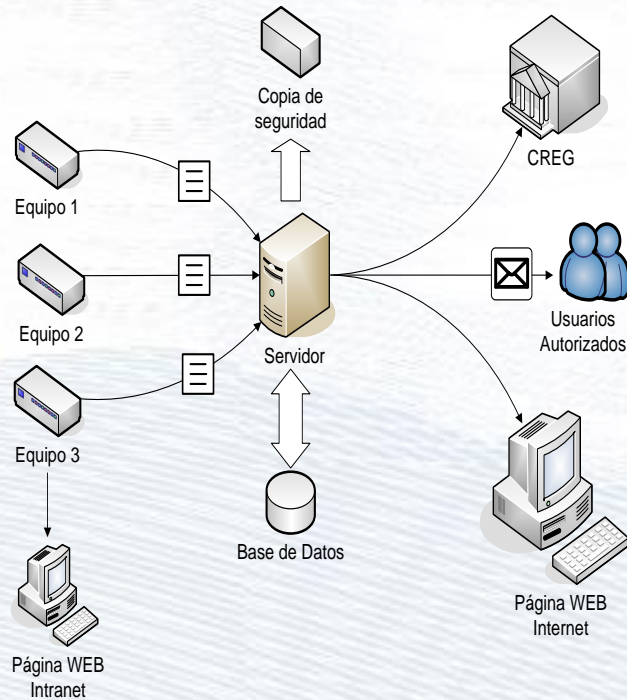
- Equipment for on- line monitoring of temperature and current of high voltage transmission

lines 220kV, 115kv, 11kV. Already being used by the largest electric company.

Patent in process



Some products already available



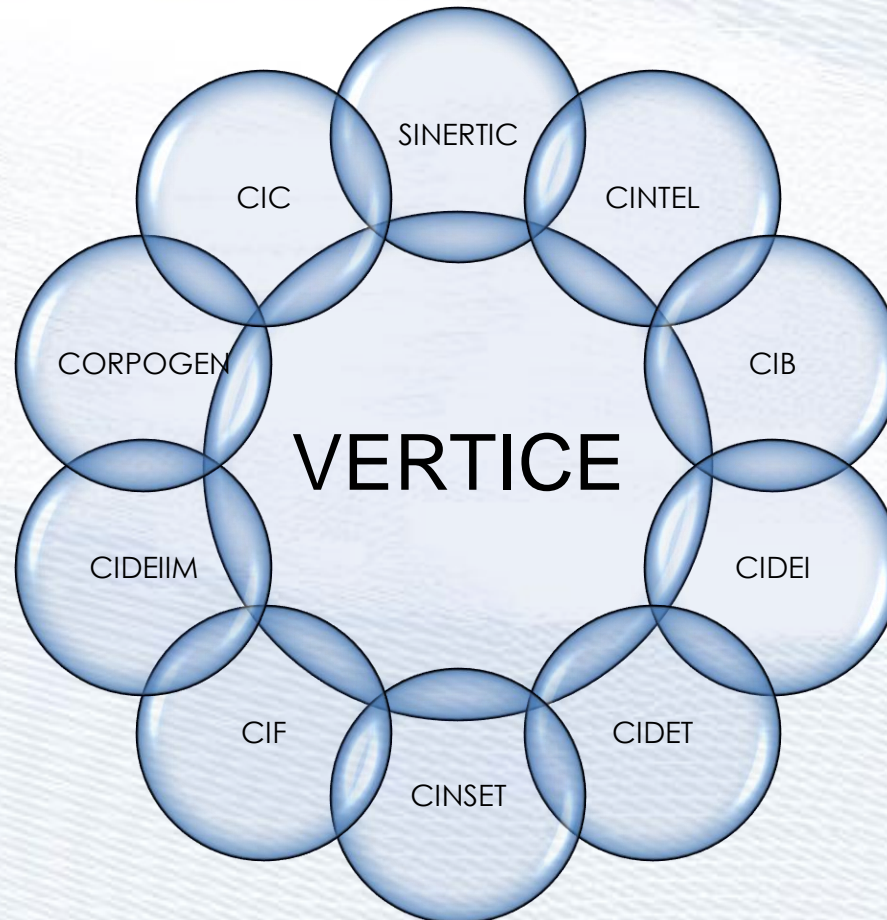
Smart grid for on- line monitoring of domestic power consumption. 10000 power meters installed in several cities. On line connection and disconnection

Other activities

- Creation of high-tech industries
 - Teclaser: Precision laser and water cutting services for industry
 - Zai: production of equipment for electrical industry
 - Aidetec : installation and maintenance of measuring equipment



National networking



International Networking

- COMSATS
- ICTP
- TWAS
- Max Planck Institute, Goetingen
- Ecole de Physique et Chimie, Paris
- Paris VI
- NWY, Biophysics Institute
- Woodshole



What can we offer to COMSATS

- Short stays for scientists in the fields of our activity
- Co-direction of Ms. and PhD thesis in biophysics with universities to determine
- Training of young entrepreneurs in our industrial experiences
- Sharing our experiences in science policy