

UNIT OF RESEARCH ON MATERIALS AND RENEWABLE ENERGIES GROUP: PHOTOVOLTAIC SYSTEMS

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Brief presentation

The Unity of research URMER has research interests in the fields of materials and renewable energies. It is composed of 3 laboratories.

Structure of the laboratory, different groups and their thematics, experimental and technical means, etc

There are 3 groups in the unity working in the following topics:

- Renewable energies and materials for energy.
- Modeling and characterization of material for electronic applications.
- Study and prediction of materials.

Activities, actions, results, projects

The activities of research in our Unity are:

1. Renewable energies and materials for energy.

- Renewable energies and development; community and household energy use in less developed countries, biomass energy resources, renewable energy technology transfer especially of photovoltaic, photothermic and wind systems, rural electrification policy in Algeria.
- Preparation and development of material-Applications.
- Energy physics: Thermal transfers and fluid mechanical.

2. Modeling and characterization of material for electronic applications.

- Integers circuits, characterization, modeling.

3. Modeling of materials, amelioration of proprieties, Prediction...

Many articles are published in these fields.

Projects

CMEP

(Prof. N.E. CHABANE SARI)

1999

02 years

Characterization of oxides obtained by thermal and chemical treatments on porous silicon

ANDRU

1st Project ANDRU

(Prof. B. BENYOUCEF)

A partir de 1998

03 years

Autonomous optimization photovoltaic adapted to a site in the Application Hybrid Energy Installation of a Semi-Arid Zone

2nd Project ANDRU

(Prof. N.E. CHABANE SARI)

1999

03 years

Study of Physical Properties of Porous Silicon-Applications

CNEPRU

1st Project CNEPRU

(Prof B. BENYOUCEF)

2000

03 years

Methods for Performance Optimization Conversion Materials Photovoltaics and Photothermiques - Applications Systems Photosolaires

2nd Project CNEPRU

(Prof N. E. CHABANE SARI)

2000

03 years

Using the porous silicon for achieving the display of large surface

3rd Project CNEPRU

(Prof. G. MERAD)

2000

03 years

Survey and Prediction of properties Electronic, Optical, and Thermodynamic Structurales Solid Materials

4th Project CNEPRU
(Prof N. E. CHABANE SARI)

2000

03 years

Characterization of layers D'oxides obtained by Heat
Treating Chemicals and Porous silicon-on-Applications
for Cell Photovoltaïques

5th Project CNEPRU
(CHERMETTI Ali)

2000

02 years

Integrating a string Articulée with a system analysis of
scenes in a system Robotics

6th Project CNEPRU
(Dr SEBBANE Omar)

2000

02 years

Technico-économique study of solar systems and heat
thermal models of a solar house

Collaborations, national and international, present and calls for collaborations

The unity URMER is collaboration between various
laboratory in France: Metz, Nancy Cedex... As part of these
collaborations, foreign dignitaries are regularly invited to
present their recent research in the laboratory.

