

Antoine MAIGNAN

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Birthdate: 18 September 1963

Nationality: French

Marital status: Married, 3 children

Professional Experience

2004 up to now: Director of the CRISMAT Laboratory, UMR 6508 (CNRS/ENSICAEN), 135 people

2000: Director of Research, affiliated to the French National Centre for Scientific Research (C.N.R.S.)

1989-1999: Researcher affiliated to the C.N.R.S.
Laboratoire CRISMAT (Crystallography and Materials Sciences)
- CAEN.

Academic Qualifications

1995: Accreditation to supervise research - Defended in September 1995.

1986-1988: Diploma of Doctor of Philosophy in Sciences (November 1988) - University of Caen

Awards

- CNRS SILVER MEDAL (2000)
- Solid State Chemistry Division Prize, French Chemical Society, SFC (2000)

research

Main Topics: Research of new functional materials

techniques: Solid state reactions, crystal growth, structural characterizations, physical properties

RESULTS:

- Co-author of about 520 publications in international journals with referees (H=49). More than 100 papers on thermoelectric oxides.
- 70 publications in proceedings of international conferences
- 35 invited talks in International Conference
- Contribution to six scientific books
- 2 patents

REFeree for the following Journals:

Journal of Solid State Chemistry, Chemistry of Materials, Journal of Applied Physics, Applied Physics Letters, Physica C for Superconductivity, European Journal of Physics,

Journal of Magnetism and Magnetic Materials, Physical Review B, Physical Review Letters, Solid State Communication, Solid State Sciences, Journal of American Chemistry, Europhysics Letter, Inorganic Chemistry, Physica Status Solidi, Journal of Alloys and Compounds, Angewandte Chemie, Chemical Physics Letter.

EDITOR ACTIVITIES

Member of the Editorial Board of Chemistry of Materials (2005-).

ACTIONS MADE TO PROMOTE THERMOELECTRICITY:

- Board member of the European Thermoelectric Society.
- Co-organizer of the Symposium "Unconventional Thermoelectrics " E-MRS, Strasbourg 2008 (80 participants). Editor of the Special Issue, to be published in Journal of Applied Energy.
- Co-organizer of the Symposium "Key Materials and Technologies for Efficient Direct Thermal-to-Electrical Conversion" which will be held at the 33rd International Conference & Exposition on Advanced Ceramics and Composites in Daytona Beach, January 18-23, 2009.
- Member of the International Scientific Committee for ECT 2008 - Paris.
- Invited speaker to give talks on Thermoelectricity in International Conference (22/35)
- Review articles on Thermoelectricity,
- Chair of conferences in which Thermoelectricity was part of the topics:
 - "European Conference on Solid State Chemistry XI", Caen, September 2008, 300 participants.
 - Chair of the Gordon Conference on Solid State Chemistry to be held in Europe (2011)
- Co-chair of International Conference on Perovskites, EMPA, Zurich, 2005.
 - Invited to the NSF Meeting "The status of Solid-State Chemistry and its Impact in the Physical Sciences" 18-20 May 2006, Northwestern University, Evanston (USA)

INTERNATIONAL COLLABORATIONS:

JAPAN: French CNRS - AIST contract on thermoelectricity. Post-doctoral positions exchanges (JSPS/CNRS) with Waseda University (Prof. I. Terasaki) and AIST Osaka (Prof. R. Funahashi). Participation to the CREST network directed by the Prof. Koumoto (Nagoya University).

USA: Virtual laboratory CRISMAT/ NWU, Evanston (Prof. K. Poeppelmeier), supported by CNRS.

Chair of Excellence supported by the Normandy Region (2007-2008) for Prof. Mas Subramanian, Oregon State Chemistry.

INDIA: Partner of the International Indian-French Laboratory - LAFICS.

EUROPEAN COLLABORATIONS:

- Participation to FAME network of excellence (becoming the European Multifunctional Material Institute) - (Coord: ICMCB, Bordeaux).
- Integration Network Program SOPRANO (Coord: CRISMAT).
- Strep "THERMOBILE" submitted to the Transport Call 2008 (Coord: CRISMAT)

NATIONAL COLLABORATIONS:

CNRS has an interdisciplinary program on Energy (PIE 2, Dir: J.B. Saulnier) with 14 topics. Responsible of the Thermoelectricity topic.

The French laboratories have been structured through two networks:

- Research Group (GDR Thermoélectricité, 23 laboratories, Dir: CRISMAT)
- Technological Platform on Thermoelectricity (5 laboratories, Coord. CRISMAT)

PARTNERSHIP WITH COMPANIES:

- CRISMAT has one common laboratory with NXP Caen (ex PHILIPS). About 8 companies involved in collaborations on Thermoelectricity with CRISMAT.
- Four patents on Thermoelectricity involving CRISMAT members.