

# CURRICULUM VITAE

**First name:** Rosaura  
**Last name:** Flores Suárez  
**Nationality:** Mexican  
**Birth date:** April 29<sup>th</sup> 1980  
**Birth place:** Mexico City  
**Marital status:** Single  
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## ACADEMIC DEGREES:

*Grundschule* (Mexico): Cristobal Colón (1985–1991)

*Junior high-school* (Mexico): Teutli (1991–1994)

*High-School* (Mexico): Diodoro Antúnez Echegaray (1994–1997)  
(Medizin und Biologie)

Bachelor in Physics (Mexico) (1997–2002)  
*Escuela Superior de Física y Matemáticas*,  
Polytechnic National Institute, (IPN),  
Thesis: Rheological behaviour of polyethylene using low-energy surface additives.  
Advisor: Prof. Dr. J. Pérez González (Rheology)

Master in Polymer Science (2003–2005)  
Free Universität Berlin, Humboldt Universität Berlin, Technical Universität Berlin, und  
Universität Potsdam  
Thesis: Polarization profiles in poled Polyvinylidene fluoride sensor cables  
Studienberater: Prof. Dr. R. Gerhard (Angewandte Physik kondensierter Materie)

**PhD Studies** (Since 2006–)  
Department of Physics and Astronomy, Potsdam University  
Advisor: Prof. Dr. R. Gerhard (Angewandte Physik kondensierter Materie)

## SCHOLARSHIPS

- Public Education in Mexico SEP (1992–1994)
- Polytechnic National Institute Mexico (IPN) (2001)
- Mexican Council of Science and Technology (CONACyT) (2002–2003)

## ACADEMIC DISTINCTIONS

- Excellent grade in the examination test for admission at IPN  
Signed by the General Director of Polytechnic National Institute 1994
- Best grades in the second semester of the high school in Medical  
and Biology area 1995
- Join the Program of Enterprising Young People at DESEM  
(*Desarrollo Empresarial Mexicano*) 1995
- Best grades in the fifth semester of the high School in Medical  
and Biology area 1996
- Participation in the seminar “Rheology and its application” by  
Rheometric Scientific. 2002
- Course on Relaxation Phenomena in Nanomaterials 2006  
Organised by Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia  
dei Materiali (INSTM) – Italy in collaboration with Department of Molecular  
Physics, Technical University of Lodz, 1<sup>st</sup>– 2<sup>nd</sup> September 2006, Poznan, Poland.

## AWARDS & AFFILIATIONS

- 3<sup>rd</sup> place in the contest on Physics, (Mechanics: Cinematic and Dynamic) 1996
- 1<sup>ST</sup> place, area of Physics, (Optics) 1997
- Best Paper Award 2006  
(High-resolution Space-Charge and Polarization Tomography  
with Thermal Pulses, Freiburg, Germany).
- Member of the “ Deutsche Physikalische Gesellschaft ” (DPG) since 2006

## SKILLS

**Languages:** Spanish (mother), English (fluent), German

**Computational:** Microsoft, CorelDraw, Origin, CAD, experience with Linux, HTML, Octave, and Gnuplot.

## TEACHING EXPERIENCE

Assistant for basic and advanced Laboratories in Physics (Potsdam University)  
(Winter 2006/07; summer 2008 and winter 2008/09)

## PUBLICATIONS

High-resolution Three-Dimensional Space-Charge and Polarization Mapping with Thermal Pulses.

Axel Mellinger, Rajeev Singh, Michael Wegener, Werner Wirges, Rosaura Flores Suárez, Sidney B. Lang, Lucas F. Santos, and Reimund Gerhard-Multhaupt.

12<sup>th</sup> International Symposium on Electrets (ISE 12), Proceedings, 212–215, (2005).

High-resolution Space-Charge and Polarization Tomography with Thermal Pulses.

Axel Mellinger, Rosaura Flores Suarez, Rajeev Singh, Michael Wegener, Werner Wirges, Sidney B. Lang, and Reimund Gerhard-Multhaupt

*Tagungsband der ITG/GMA-Fachtagung "Sensoren und Messsysteme"*, (VDE Verlag GmbH, Offenbach 2006), 511–514 (2006).

Thermal-Pulse Tomography of Polarization Distributions in a Cylindrical Geometry.

Rosaura Flores Suárez, Axel Mellinger, Michael Wegener, Werner Wirges, Reimund Gerhard-Multhaupt and Rejeev Singh.

IEEE Transactions on Dielectrics and Electrical Insulation, **13**, No. 5, 1030–1035, (2006).

Non-destructive space-charge and polarization tomography with thermal pulses (Zerstörungsfrei Tomographie von Raumladungs- und Polarisationsverteilungen mittels Wärmepulsen).

Axel Mellinger, Rosaura Flores Suarez, Rajeev Singh, Michael Wegener, Werner Wirges, Sidney B. Lang, and Reimund Gerhard-Multhaupt

TM-Technisches Messen, **74**, 9, 437–444, (2007)

Thermal-Pulse Tomography of Space-Charge and Polarization Distributions in Electret Polymers.

Axel Mellinger, Rosaura Flores Suárez, Rajeev Singh, Michael Wegener, Werner Wirges, Reimund Gerhard and Sidney B. Lang.

International Journal of Thermophysics, **29**, 2046–2054 (2008)

3D high-resolution mapping of polarization profiles in thin poly(vinylidene fluoride-trifluoroethylene) (PVDF-TrFE) films using two thermal techniques.

Cong-Duc Pham, Anca Petre, Laurent Berquez, Rosaura Flores-Suárez, Axel Mellinger, Werner Wirges and Reimund Gerhard.

IEEE Transactions on Dielectrics and Electrical Insulation, **16**, 676-681, (2009)

## INTERNATIONAL CONFERENCE CONTRIBUTIONS

Influencia de Aditivos de Baja Energía de Superficie en la Extrusión de Polietilenos Lineales. **(Talk)**

Rosaura Flores-Suárez, José Pérez-González, Lourdes A. Vega Acosta Montalban. XLV Congreso Nacional de Física. VIII Congreso de la División de Dinámica de Fluidos.

From October 28<sup>th</sup> to October 1<sup>st</sup>, 2002.

León, Guanajuato, México.

Pyroelectric Tomography: Non destructive 3D Mapping of Polarization Profiles in Poled Polyvinylidene Fluoride Copolymer Sensor Cables. **(Poster)**

Rosaura Flores Suárez, Michael Wegener, Werner Wirges and Axel Mellinger. Deutsche Physikalische Gesellschaft e.V (DPG)

From, March 27<sup>th</sup> to March 31<sup>st</sup> 2006

Dresden, Germany.

Three-dimensional Tomographic Imaging of Space-charge Distributions with Thermal Pulses. **(Poster)**

Axel Mellinger, Michael Wegener, Rosaura Flores Suárez, Rajeev Singh, Werner Wirges, Reimund Gerhard-Multhaupt.

IEEE International Conference on Acoustics, Speech, and Signal Processing. (ICASSP)

From May 14<sup>th</sup> to May 19<sup>th</sup> 2006

Toulouse, France.

Thermal-Pulse Tomography: A Tool to Perform 3D Mapping of Polarization Profiles and Polarization Switching Processes. **(Poster)**

Rosaura Flores Suárez, Axel Mellinger, Michael Wegener, Werner Wirges, Reimund Gerhard-Multhaupt.

4<sup>th</sup> Conference of the International Dielectric Society &

9<sup>th</sup> International Conference on Dielectric & Related Phenomena (IDS and DRP)

From September 3<sup>rd</sup> to 7<sup>th</sup> 2006

Poznan, Poland.

High-Resolution Imaging of a Defined Polarization Pattern in PVDF Films using Thermal-Pulse Tomography. **(Poster)**

Rosaura Flores Suárez, Axel Mellinger, Werner Wirges and Reimund Gerhard.

11th European Meeting on Ferroelectricity (EMF 2007)

From September 3<sup>rd</sup> to 7<sup>th</sup> 2007

Bled, Slovenia.

Time- and frequency-domain polarization imaging on poly(vinylidene fluoride-co-trifluoroethylene) films. **(Talk)**

Rosaura Flores Suárez, Axel Mellinger, Werner Wirges, Reimund Gerhard, Cong-Duc Pham, Anca Petre, Laurent Berquez, and Didier Marty Dessus.

Deutsche Physikalische Gesellschaft e.V (DPG)

From, February 25<sup>th</sup> to March 29<sup>th</sup> 2008

Berlin, Germany.

## **...INTERNATIONAL CONFERENCE CONTRIBUTIONS**

Time- and frequency-domain polarization imaging on poly(vinylidene fluoride-co-trifluoroethylene) films. **(Talk)**

Rosaura Flores Suárez, Axel Mellinger, Werner Wirges, Reimund Gerhard,

Cong-Duc Pham, Anca Petre, Laurent Berquez, and Didier Marty Dessus.

5<sup>th</sup> Conference of the International Dielectric Society and 10<sup>th</sup> Conference on Dielectric and Related Phenomena (IDS and DRP)

From August 26<sup>th</sup> to 29<sup>th</sup> 2008.

Lyon, France.