

# MILTON E. RIVERA-RAMOS

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## EDUCATION

2004-Present

**Ph.D. Chemical Engineering- University of Puerto Rico, Mayagüez Campus**

Thesis research: *Synthesis of Nanoporous Materials for Natural Gas Purification*

Objective: Development of synthetic nanoporous via templated synthesis for the selective separation of light species present in natural gas.

1995-2000

**B.S. Chemical Engineering- University of Puerto Rico, Mayagüez Campus**

GPA: 3.34 in 4.00 scale

## PROFESSIONAL EXPERIENCE

2002 - 2003

Cemex Puerto Rico: Ponce Plant

Ponce, PR

**Quality Manager**

Quality Department: Optimization of the properties of products used in commercial construction.

2000 - 2002

Puerto Rican Cement Co. Inc.

Ponce, PR

**Process Engineering**

Production Department: Analysis, development, and modification of manufacturing processes to optimize production and minimize costs.

1999 - 2000

Pharmacia & Upjohn Caribe Inc.

Barceloneta, PR

**Coop Experience as Engineering Assistant**

Chemical Plant Technical Services: Development and validation of cleaning procedures to avoid cross-contamination of pharmaceutical products.

## PUBLICATIONS

April 2007

Rivera-Ramos, M.E.; Hernández-Maldonado, A.J. **Adsorption of N<sub>2</sub> and CH<sub>4</sub> by Ion-Exchanged Silicoaluminophosphate Nanoporous Sorbents: Interaction with Monovalent, Divalent and Trivalent Cations.** *Ind. Eng. Chem. Res.* **2007** in press.

## PRESENTATIONS

May 2007

**Adsorption of N<sub>2</sub> and CH<sub>4</sub> by Ion-Exchanged Silicoaluminophosphate Nanoporous Sorbents: Interaction with Monovalent, Divalent and Trivalent Cations.** Poster presentation during the Puerto Rico-NSF/EPSCoR 2007 Annual Meeting (Río Grande, PR).

November 2006

**New Silicoaluminophosphate and Titanosilicate Nanoporous Sorbents for Gas Phase Separations.** Oral presentation during the 2006 AIChE National Meeting (San Francisco, CA).

October 2005

**Organic-Template Nanoporous Materials for Selective and Large Capacity Nitrogen Adsorption.** Poster Presentation during the 12th Chemical Engineering Symposium (Mayagüez, PR).

September 2005

**Nanoporous Materials for Selective and Large Capacity Nitrogen Adsorption.** Poster presentation during the Puerto Rico-NSF/EPSCoR Annual Meeting (Río Grande, PR).

## PROFESSIONAL MEMBERSHIPS

2006 - 2007

American Institute of Chemical Engineers (AIChE)

2004 - 2007

Asociación de Estudiantes Graduados de Ingeniería Química (AEGIQ)

✓ Part of the Executive Board – Treasurer (2006-2007)

2000 - 2007

Colegio de Ingenieros y Agrimensores de Puerto Rico (CIAPR)

## HONORS

October 2005

3<sup>rd</sup> place award – Graduate Student Poster Session at the 12th Chemical Engineering Symposium (Mayagüez, PR).

January 2004

Sloan Foundation Fellowship

## SKILLS

Oral and writing skills in Spanish and English

Ability to work under time pressure and prioritize task.