

Ingrid del Carmen Montes-González

Curriculum Vitae

Fall 2015

Education

Doctor of Philosophy, Organic 1985

Chemistry

University of Puerto Rico-Río Piedras
Campus

Thesis advisor: Gerald Larson

Bachelor of Science, Chemistry 1980

University of Puerto Rico-Río Piedras
Campus

Professional Experience

2015 Assistant Dean of Graduate Studies and Research Program,
University of Puerto Rico, Río Piedras Campus

1998 - Present Professor, Department of Chemistry, Univ. of Puerto Rico, Río
Piedras Campus. Professor and Laboratory Coordinator of Organic
Chemistry for Majors.

1995 - Present Coordinator Pre-MARC Program, University of Puerto Rico, Río
Piedras Campus

1996 - 1998 Assistant to the Chairman in Academic Affairs

1992 - 1998 Associate Professor, Univ. of Puerto Rico, Río Piedras Campus.
Professor and Laboratory Coordinator of Organic Chemistry for
Majors, Professor of Organic Synthesis.

1987 - 1992 Assistant Professor, Department of Chemistry, Univ. of Puerto Rico,
Río Piedras Campus. Professor of General Chemistry, Organic
Chemistry, Hazardous Waste Disposal, Organic Synthesis and
Laboratory Coordinator for Majors and Non-Majors Organic
Chemistry.

1986 - 1988 Curriculum Specialist (Part-Time), Puerto Rico Junior College, Río
Piedras, Puerto Rico. Responsible for the preparation of manuals,
purchase of equipment and materials and the design and
development of the General Chemistry and the Drug Analysis
Courses and Laboratories.

- 1985 - 1986 Lecturer, College of Pharmacy, Medical Sciences Campus, University of Puerto Rico, San Juan, Puerto Rico. Drug Analysis and Biochemistry Laboratory Professor and Researcher in Medicinal Chemistry.
- 1984 Instructor (Part-Time), Interamerican University, Metropolitan Campus, Puerto Rico. General and Organic Chemistry Laboratory Professor.
- 1981 - 1984 Research Assistant, University of Puerto Rico, Río Piedras Campus. Laboratory Research work in Organometallic Chemistry towards completion of Ph. D. Thesis.
- 1980 - 1981 Teaching Assistant, University of Puerto Rico, Río Piedras. Organic Chemistry Laboratory Instructor.

Research Interest

Organometallic Chemistry

Ferrocene has attracted the attention of scientists because of its numerous uses in chemical sensing, asymmetric catalysis, and in material science. Its derivatives have many applications, which include optical devices, redox mediators for enzyme sensors, biofuel cells, and the synthesis of biological active drugs. Our research explores the synthesis and characterization of various ferrocene derivatives, mainly based on ferrocenyl chalcones core, and to study their potential applications including molecular materials, as redox-sensors, polymers and in drug design.

Chemical Education

Our research work is based upon the theoretical perspective building on constructivist and meaningful learning theory. In this respect, the construction of knowledge will therefore depend on the interaction of personal experiences with private understandings. As educators, we must be aware of student understandings and provide the adequate environment and opportunities for students to more easily create and retrieve appropriate conceptions. Our research includes three intertwined branches: the instruction (transmission of attitudes, skills and habits of inquiry to students), the practice (development of the tools and methods used to teach chemistry) and the assessment.

Outreach

Development and Implementation of the "Festival de Química" for the American Chemical Society (ACS)

The "Festival de Química" is a community outreach event that, through

demonstrations, emphasizes the importance of chemistry in daily life. The event was initially designed, developed and implemented in Puerto Rico, since 2010 ACS adopted this model to broaden its impact internationally.

It includes training prior to the event using the model "Train the trainers" for those who will work as volunteers, manual for volunteer, manual for outreach coordinator and flash cards for participants.

Each event reaches out from 300 up to thousands children and students.

- Ongoing event in Puerto Rico since 2005 (National Chemistry Week and Chemists Celebrate Earth Day)
- "29th Congreso Latinoamericano de Química (CLAQ 2010)", Cartagena, Colombia, September, 2010
- "IUPAC World Congress", San Juan, Puerto Rico, July, 2011.
- "30th Congreso Latinoamericano de Química (CLAQ 2012)", Cancún, México, October, 2012.
- "Open House" Universidad de los Andes, Bogotá, Colombia, September, 2013.
- "Semana Nacional de la Ciencia y la Tecnología" by CONICYT (Consejo Nacional de Ciencia y Tecnología); Pontificia Universidad Católica de Chile, Santiago, October, 2013.
- "Open House" at the Universidad de Concepción, Concepción, Chile, October, 2013.
- "Chinese Chemical Society Meeting", Beijing, China, August 2014.

Refereed Publications

Myrna Otaño, Kennett Rivero and Ingrid Montes "(E)-1-Ferrocenyl-3-(2-methoxyphenyl)prop-2-en-1-one" *Acta Cryst.*, 2014, E70, m108–m109.

Ana Guadalupe, Rocío Cardona, Kenneth Hernandez, Laura Pedro, Myrna Otaño, and Ingrid Montes "Electrochemical and Spectroscopical Characterization of Ferrocenyl Chalcones" *Journal of The Electrochemical Society*, 2010, 157, 104-110.

I. Montes, D Sanabria Ríos "Assessment of Organic Inquiry-Based Laboratory Experiences Targeting Different Learning Styles: Ethnographic Study" *The Chemical Educator*, 2010, 15, 79–89.

I. Montes, J. Cintron-Maldonado, I. Pérez, V. Montes-Berríos and S. Román "A sticky situation: dissolving chewing gum with chocolate" *J. Chem. Ed.*, 2010, 87, 396-397.

I. Montes, E. Valentín, W. Adam, "Counterion Effects in the Nucleophilic Substitution Reaction of the Acetate Ion with Alkyl Bromides in the Synthesis of Esters" *J. Chem. Ed.*, 2009, 86, 1315-1318.

I. Montes, A. Padilla, A. Maldonado, S. Negretti_" Student-Centered Use of Case Studies Incorporating Oral and Writing Skills To Explore Scientific Ethical Misconduct" *J. Chem. Ed.*, 2009, 86, 936-939.

I. Montes, C. Lai "Hey; Where did it go? A Guided Inquiry Experiment for the Organic Chemistry" *The Chemical Educator*, 2007, 12, 175–176.

I. Montes, D Sanabria Ríos, J. Fajardo, M. García, J. Castro "A Greener Approach to Aspirin Synthesis Using Microwave Irradiation" *J. Chem. Ed.*, 2006, 83, 628-631.

I. Montes and C. Collazo, "ACS Student Affiliates Chapters-More than Just a Chemistry Club" *J. Chem. Ed.*, 2003, 10, 1151-52.

I. Montes, C. Lai and D. Sanabria, "Like Dissolves Like" *J. Chem. Ed.* 2003, 80, 447- 449.

I. Montes, José A. Prieto, Marilyn García, "Using Molecular Modeling in the Organic Chemistry Course for Majors" *Journal of Chemical Educator*, 2002, 7, 293-296.

H. Zhou. C. Lai and I. Montes, "Crystal structure of 1,5-bis(2-methoxyphenyl)-1,4-pentadien-3-one, C₁₉H₁₈O₃", *Z. Kristallogr. NCS* 214 (1999) 53-54.

G. L. Larson, I. Montes and L. Rodríguez, "Alpha Diphenylmethylsilylation of Ester Enolates: 2-Methyl-2-undecene from Ethyl Decanoate", *Organic Synthesis*, 67, 125-131 (1989).

G. L. Larson, I Montes, A. Santiago, "A Synthesis of 2,2- Ethylenedioxy -6-Ketones". *Synthetic Communication* 16, 697 (1986).

G. L. Larson, I. Montes, A. Santiago, "A Synthesis of 2,2,-Ethylenedioxy-5- Ketones". *Synthetic Communication* 16, 705 (1986).

G. L. Larson, D. Hernández, I. Montes, L. Torres, "Reaction of α -(Diphenylmethylsilyl) esters with Grignard Reagents: A Direct, Two-Step Synthesis of Ketones from Esters", *The Journal of Organic Chemistry*, 50, 5258 (1985).

G. L. Larson, I. Montes, L. Torres, "An Efficient Synthesis of β Ketosilanes", *Tetrahedron Lett.*, 25, 1673-1676 (1984).

Laboratory Manuals

I. Montes, P. González Experiencias para el Laboratorio de Química Orgánica, Pearson Custom Publishing, First edition 2003, Second edition 2005, Third edition, 2010, Forth edition 2013.

I. Montes, *Teaching Assistant Manual*, University of P.R., Río Piedras Campus, August 1992.

A. Rodríguez, I. Montes, E. Danielsen, J. Bonilla, *Safety Laboratory Manual*, University of Puerto Rico, Río Piedras Campus, August 1991.

I. Montes, *Laboratory Manual of General Chemistry*, PR Junior College, August 1988.

A. Martí, *Laboratory Manual of Biochemistry*, College of Pharmacy, University of Puerto Rico, 1984. Revised by I. Montes in March 1986.

P.I. Chavez, I. Montes, M. Sidhom, *Laboratory Manual of Drug Analysis*, University of Puerto Rico, College of Pharmacy, March 1986.

Non-Refereed Publications

10 Years Of Growth For The Festival De Química, Ingrid Montes, *Chemical & Engineering News*, 93(2), January 12, 2015.

Offer Your Service-The Benefits Are Endless, Ingrid Montes, Chair, Committee on Community Activities *Chemical & Engineering News*, 87(44), June 22, 2009.

Official Reports from the Philadelphia Meeting *Chemical & Engineering News*, 86(44), November 3, 2008.

NCW, Chemists Celebrate Earth Day, And The Importance Of Outreach, Ingrid Montes, Chair, Committee on Community Activities *Chemical & Engineering News*, 86(43), October 27, 2008.

Official Reports from the New Orleans Meeting *Chemical & Engineering News*, 86(25), June 23, 2008.

'The Many Faces of Chemistry', Ingrid Montes, Chair, Committee on Community Activities *Chemical & Engineering News*, 85(43), October 22, 2007.

I. Montes J. Jankowski "Celebrating 20 Years of National Chemistry Week" *J. Chem. Ed.*, **2007**, 84, 1092

I. Montes, "El Uso de la Tecnología de las Telecomunicaciones en el Programa de Multimedia Interactivos para el Desarrollo de Destrezas en el Curso de Química Orgánica de la UPR", *Tecne*, Vol. 1 #2, 17 (1995).

Invited Presentations

Synthesis, Characterization and Biological applications of ferrocenyl chalcones 13th Raymond N. Castle Conference, University of South Florida, Tampa, USA, April 2015.

Climate Science Toolkit: A successful project in Puerto Rico, Sara Delgado-Rivera |

Maria Rodriguez Guzman; Ingrid Montes-González, 249th ACS National Meeting, Denver, CO, March 25, 2015.

Ferrocenyl Chalcones: A versatile core, Universidad de Concepción, Concepción, Chile, October 2013.

Synthesis and applications of Ferrocenyl Chalcones, Pontificia Universidad Católica, Santiago, Chile, October 2013.

The versatility of Ferrocenyl Chalcones core, Universidad de los Andes, Bogotá, Colombia, September 2013.

Are there any particular challenges faced by women in STEM fields? ADVANCE Networking of Hispanic Women in STEM, San Juan, Puerto Rico, October 2012.

Química Verde -nuestro compromiso, nuestro futuro Universidad Jorge Tadeo Lozano, Bogotá, Colombia, November 2011.

Hispanic Women Underrepresentation in STEM Fields, 241st ACS National Meeting, Anaheim, CA, March 2011.

Life Stories and Educational Techniques: How to Motivate Students to Become Successful Scientists, at the Universidad Tecnológica de Bolivar, Colombia, September 2010.

Hispanic women: How to rise above challenges and move forward? Presidential Symposium: Women Chemists of Color: Staying at the Table Symposium, 240th ACS National Meeting, Boston, August 2010

Teaching Green Chemistry in the Organic Chemistry Course, Symposium: Sustainability across the Chemistry Curriculum: Green Chemistry and Beyond, 236th ACS National Meeting, Philadelphia, Pen, August 2008

New Directions in Teaching Organic Chemistry: An Inquiry-Based Approach. An International Conference on "New Directions in Teaching, Learning and Evaluation of Chemical Sciences at Tertiary Level" at Sri Lanka (SPONSORED BY IUPAC), March 2006.

Inquiry-Based Approach for Teaching Organic Chemistry- Ingrid Montes- "Active Learning in Organic Chemistry Symposium"-University of Puerto Rico-Cayey Campus, November, 2005

Chemical Demonstration Show at Festival de Química, 229th ACS National Meeting, San Diego, CA, Marzo 2005.

¿Cómo ha ido cambiando la percepción de la importancia del rol de la mujer en la química?, Ingrid Montes, UPR-Aguadilla, October 2004, Aguadilla , PR

Teaching Organic Chemistry: An Instruction, Practice and Research Experience, Primer Encuentro de Estudiantes de Química, UPR-Río Piedras, April 2003

Teaching Organic Laboratory Techniques Using The Guided Inquiry Learning Approach, Ingrid Montes 17th Biennial Conference on Chemical Education, Western Washington Univ., Bellingham, Washington, July 2002

ACS student affiliates chapters: an alternative to mentoring programs, as part of the symposium "Mentoring: A Strategic Tool for Professional Development", 223rd ACS National Meeting, Orlando, March 2002, Mentoring Symposium.

Leveraging Your Opportunities for Leadership, 223rd ACS National Meeting, Orlando, March 2002, Panelist.

A Collage Of New Alternatives For Teaching Organic Chemistry, Ingrid Montes, 6th UNCW Symposium on Chemistry and Biochemistry, NC Wilmington, January 2002.

"New Alternatives For Teaching Organic Chemistry Using Active Learning Approach". Ingrid Montes*, Chunqiu Lai, H. Zhou, Zhiqin Ji, Zaida Diaz, Marilyn García, Margarita Melendez And Humberto Rodriguez, University of Puerto Rico, Mayaguez Campus, May 2000.

"New Alternatives To Teach Organic Chemistry Laboratory Using Guided Inquiry Learning Approach", Ingrid Montes, Chunqiu Lai And Margarita Meléndez University of Puerto Rico, Humacao, February 2000.

"The Organic Chemistry Course For Majors, As Experience Of Active Learning", Ingrid Montes, José A. Prieto and Humberto Rodríguez, 16th Chemistry Conference, Santiago, Cuba, December 1999.

"Can We Teach Organic Chemistry Laboratories Using Guided Inquiry Learning Approach?", Ingrid Montes, Chunqiu Lai, and Margarita Meléndez, 16th Chemistry Conference, Santiago, Cuba, December 1999.

"Nuevas Experiencias de Laboratorio para el curso de Química Orgánica", I. Montes, Seminar Speaker, Metropolitan University of Puerto Rico, April 1999.

"El curso de Química Orgánica: Una experiencia de Aprendizaje Activo", I. Montes, Seminar Speaker, Pontifical Catholic University of Puerto Rico, September 1997.

"Interactive Computer Modules as Teaching Aids", I. Montes, Seminar Speaker, University of Wisconsin, Madison, Madison, Wisconsin, August 1995.

Presentations at Meetings/Conferences

"Festival de Química" a successful model to communicate chemistry Ingrid Montes, Ph.D. IUPAC International Conference on Chemical Education, Toronto, Canada, July 2014.

"Fostering Green Chemistry through a Capstone Course", Richard Rivera and Ingrid Montes, Ph.D. 244th ACS National Meeting, Philadelphia, August 2012.

"El curso de Química Orgánica: Una experiencia de enseñanza y aprendizaje integral e innovadora", Ingrid Montes Conferencia Innovación y Cambio en la Educación Superior, UPR-Río Piedras Campus, February 2009.

"Development of Laboratory Video Clips and Modules for the Organic Chemistry Course", Ingrid Montes, Patricia González and Diana L. Santiago, 26th ACS Senior Technical Meeting, San Juan, P.R., August 2002.

"Teaching Organic Laboratory Techniques Using the Guided Inquiry Learning Approach" BCCE, Ingrid Montes, Washington, July 2002.

"Active Learning Approach: A New Alternative For Teaching Organic Chemistry", I. Montes, C. Lai, H. Zhou, Z. Ji, Z. Diaz, M. García, A. Maldonado, M. Meléndez and D. Sanabria, 25th ACS Senior Technical Meeting, San Juan, P.R., November 2001.

"New Alternatives For Teaching Organic Laboratory Techniques Using The Guided Inquiry Learning Approach". Ingrid Montes, M. García, C. Lai, A. Maldonado, M. Meléndez and D. Sanabria, CETP Conference, Puerto Rico, November 2001.

"Active Learning Approach: A New Alternative For Teaching Organic Chemistry", I. Montes, C. Lai, H. Zhou, Z. Ji, Z. Diaz, M. García, A. Maldonado, M. Melendez and H. Rodríguez, 4^{to} Congreso Internacional de Química, 222th ACS National Meeting, Chicago, August 2001.

"Kids & Chemistry Workshop". I. Montes and A. Bennett, 4^{to} Congreso Internacional de Química, La Habana, Cuba, April 2001.

"Active Learning Approach: A New Alternative For Teaching Organic Chemistry", I. Montes*, C. Lai, H. Zhou, Z. Ji, Z. Diaz, M. García, A. Maldonado, M. Melendez and H. Rodríguez, 4^{to} Congreso Internacional de Química, La Habana, Cuba, April 2001.

"New Alternatives For Teaching Organic Laboratory Techniques Using The Guided Inquiry Learning Approach". Ingrid Montes, Chunqiu Lai and Margarita Meléndez, First ACS Pan American Conference, Puerto Rico, June 2000.

"The Use Of Technology In The Organic Chemistry Course For Majors", Ingrid Montes, Marilyn García, Humberto Rodríguez, 1st Fair of Technology UPR-RP, April, 2000.

"New Alternatives To Teach Organic Chemistry Laboratory Techniques Using Guided Inquiry Learning Approach", Ingrid Montes, Chunqiu Lai and Margarita Meléndez,

219th ACS National Meeting, San Francisco, March 2000.

"Can We Teach Organic Chemistry Laboratory Techniques Using Guided Inquiry Learning Approach?", Ingrid Montes, Chunqiu Lai, and Margarita Meléndez, 23th ACS Senior Technical Meeting, Humacao, P.R., November 1999.

"A New Systematic Study Of The Grignard Reaction Focused On The Guided Inquiry Approach", Margarita Meléndez, Zaida Díaz and Ingrid Montes, 218th ACS National Meeting, New Orleans, August 1999.

"New Organic Chemistry Laboratory Experiences Focused On The Problem Based Learning Approach", Ingrid Montes, Chunqiu Lai, Zaida Díaz and Margarita Meléndez, 217th ACS National Meeting, Anaheim, California, March 1999.

"New Organic Chemistry Laboratory Experiences Focused On The Problem Based Learning Approach", Ingrid Montes, Chunqiu Lai, Zaida Díaz And Margarita Meléndez, 22th ACS Senior Technical Meeting, Aguadilla, P.R., November 1998.

"The Organic Chemistry Laboratory: An Experience of Active Learning", Chunqiu Lai, I. Montes and Helena Rivera, Congreso Latinoamericano, P.R., July 1998.

"Success Stories in Science Education", I. Montes and G. Escalona, 7th Annual Quality Education for Minorities, Mathematics, Science, and Engineering Network Conference, Washington U.S.A., February, 1998.

"The Organic Chemistry course for majors: An experience of Active Learning", I, Montes and J. Prieto, 21st ACS Senior Technical Meeting, Lajas, P.R., November 1997.

"New Approach for the Organic Chemistry Laboratory", I, Montes, Chunqiu Lai and Helena Rivera, 21st ACS Senior Technical Meeting, Lajas, P.R., November 1997.

"Improving the Chemistry Teaching and Learning Experience at the Department of Chemistry, Río Piedras", I. Montes, R. Morales, Symposium: Shaping the future of Undergraduate education and the role of University, Industry and government in the development of human Resources, San Juan, September 1997.

"ACS Student Chapters at the University of Puerto Rico, Río Piedras Campus", C. Bosques, I. Montes, 213th ACS National Meeting, San Francisco, California, April 1997.

"A Bachellor for the New Millennium" ACS Student Chapters, G. Tejada, Celia Maldonado and Eladio Rivera, I. Montes, 213th ACS National Meeting, San Francisco, California, April 1997.

"Improving the Chemistry Teaching and Learning Experience at the Department of Chemistry, Río Piedras", Morales R., Arce, J., Betancourt R., Cordero N., Danielsen E., González P., Montes I., Motta N., 4th Annual PR-AMP Meeting of Chemistry Professors, San Juan, PR, February 1997.

"Different Alternatives for the Organic Chemistry Laboratory", I. Montes, 20th ACS Senior Technical Meeting, San Juan, P.R., November 1996.

"The Use of Computer Technologies in Organic Chemistry", I. Montes, P. González, N. Cordero, R. Betancourt, T. Mendoza and A. Caraballo, 20th ACS Senior Technical Meeting, San Juan, P.R., November 1996.

"Promoting an Active Learning Experience in the Organic Chemistry Laboratory", P. González and Ingrid Montes, 24th ACS Senior Technical Meeting, La Parguera, P.R., November 1995.

"A Graduate Dean's Support of Effective Teaching Assistant Training Programs", E. Ríos, I. Montes and E. Danielsen, 5th National Conference on the Education and Employment of Graduate Teaching Assistants, Denver, Colorado, November 1995.

"Interactive Computer Modules as Teaching Aids for Spanish Speaking Students in Organic Chemistry", I. Montes, P. González, N. Cordero, R. Betancourt and T. Mendoza, 3rd Pan American Chemical Congress, San Juan, P.R., September 1995.

"ACS Student Chapters, Abroad Spectrum of Possibilities", R. Delgado, I. Montes, 209th ACS National Meeting, Anaheim, California, April 1995.

"An Interactive Computer Approach to Develop Problem-Solving Skills for Organic Chemistry Students", I. Montes, N. Cordero, P. González, 209th ACS National Meeting, Anaheim California, April 1995.

"Using Interactive Multimedia to Help Organic Chemistry Students to Develop Problem-Solving Skills", I. Montes, T. Mendoza, Second Symposium of Interactive Multimedia, Interamerican University, San Juan, P.R., March 1995.

"Using Interactive Computer Modules to Develop Problem Solving Skills in Organic Chemistry", 18th Senior Technical Meeting, Aguadilla, P.R., November 1994.

"Hazardous Material Management", I. Montes, Association of Science Teachers San Juan, PR, February 1994.

"ACS Student Chapters as Promoters of Chemistry Awareness and Agents to Attract Students to the Field", R. Delgado, I. Montes, R. Betancourt, ACS National Meeting, April 1994.

"Teaching Assistant Training", I. Montes, University of Puerto Rico, Río Piedras, Puerto Rico, August 1991 and 1992.

"Microchemistry", I. Montes, Science Teacher Association Convention, San Juan, Puerto Rico, April 1991.

"Teaching Assistant Training", I. Montes, University of Puerto Rico, Río Piedras, Puerto Rico August 1990.

"Facile Synthesis of Monoprotected 1,4 and 1,5 Diketones", G. L. Larson, A. Santiago, I. Montes First Pan American Chemical Congress, San Juan, Puerto Rico, October 1985.

"Alpha-Silyl Esters in Synthesis", G. L. Larson, I. Montes, V. Cruz, L. E. Torres, ACS 189th National Meeting, Miami, Florida, April 1985.

"Alpha-Silyl Esters in Synthesis", G. L. Larson, I. Montes, 8th Annual Senior Technical Meeting, American Chemical Society Puerto Rico Section, San Juan, Puerto Rico, December 1984.

"Alpha-Silyl Esters in Synthesis", I. Montes, University of Puerto Rico, Río Piedras, Puerto Rico, December 3, 1984.

"Synthesis of Monoprotected 1,4, and 1,5 diketones", G. L. Larson, Angel Santiago, I. Montes, 8th Annual Senior Technical Meeting, American Chemical Society, Puerto Rico Section, San Juan, Puerto Rico, December 1984.

"Direct Synthesis of α -Silyl Ketones and Ketones from Silyl Esters", G. L. Larson, I. Montes, D. Hernández, L. Torres, ACS 187th National Meeting, St. Louis, Missouri, April 1984.

"Synthesis of Substituted Olefins and α -Silyl Ketones from α -Silyl Esters", G. L. Larson, I. Montes, D. Hernández 7th Annual Senior Technical Meeting, ACS Puerto Rico section, Mayagüez, Puerto Rico, December 1983.

"La Conversión de Lactonas a Dihidrofuranos; Cetonas 1,4 y Ciclopentenonas", G. L. Larson, E. Pérez, I. Montes, 18th ACS Junior Technical Meeting, Ponce, Puerto Rico, April 1983.

"Lactones to Dihydrofurans and diketones", G. L. Larson, I. Montes, XV Congreso Latinoamericano de Química, Centro de Convenciones, San Juan, Puerto Rico, October 1982.

"The Conversion of d-Valerolactones to 1,4-Diketones and Cyclopentenones", G. L. Larson, I. Montes, 6th Annual Senior Technical Meeting, American Chemical Society, Puerto Rico Section, San Juan, Puerto Rico, December 1981.

"Synthesis of α -Functionalized Organosilanes", G. Larson, I. Montes, XV Junior Technical Meeting, Ponce, Puerto Rico, April 1980.

"Synthesis and Reactions of α -Carbo Functional Organosilanes", G. Larson, I. Montes, MBS Symposium, Atlanta, Georgia, April 1980.

"Synthesis of Functionalized Organosilanes", G. L. Larson, I. Montes, 4th Senior Technical Meeting, San Juan, Puerto Rico, December 1979.

"Reaction of β -Hydroxyorganosilanes", G. L. Larson, I. Montes, 14th Junior Technical Meeting, Río Piedras, Puerto Rico, April 1979.

Student's Presentations

"Synthesis of Novel Chacones Derivative's Ferrocene Polymers" Giovanni Rodríguez-Díaz; Johanna Fajardo-Tolentino; Yanira Enríquez-González; Ana Guadalupe-Quiñones, R. Ph.D and Ingrid Montes-González, Ph.D, 13th Raymond N. Castle Conference, University of South Florida, Tampa, USA, April 2015.

"Heterocycles: An enhancement in the ferrocenyl derivatives pharmacophores" Juan C. Aponte-Santini, Ingrid Montes-González, Soraya Abdul-Hadi-Martínez, Fernando J. Correa-Delgado, David J. Sanabria-Ríos, María Del M. García-Maldonado, Ana R. Guadalupe-Quiñones, Emilee Colón-Lorenzo, Adelfa Serrano-Brizuela, and Fathi Halaweish, 249th ACS National Meeting, Denver, CO, March 25, 2015.

"An improved methodology for the synthesis of nonsymmetric ferrocenyl chalcone derivatives" Stephany M. Ramos De Dios; Myrna Otaño; Ingrid Montes-González, Ph.D., 249th ACS National Meeting, San Francisco, CA, March 2015.

"A Greener Approach to the Grignard Reaction" Adrian E. Burgos-Avilés; Ingrid Montes, Ph.D., 249th ACS National Meeting, Denver, CO, March 2015.

"Oximes derivatives from Ferrocenyl Chalcone as potential antibacterial agents" Naishka E. Caldero Rodríguez; Ingrid Montes, Ph.D., 249th ACS National Meeting, Denver, CO, March 2015.

"Thiosemicarbazone-derivatives from Ferrocenyl Chalcones as Potential Antibacterial and Antimalarial Agents" Andrés Molina Villarino, Ingrid Montes González, 249th ACS National Meeting & Exposition: Chemistry of Natural Resources, Denver, CO, March 2015.

"Laboratory Experience for the Organic Chemistry Course based on a greener approach for the Grignard Reaction" Adrian E. Burgos-Avilés; Ingrid Montes-González, Ph.D.; 50th ACS Junior Technical Meeting, University of Puerto Rico, University of Puerto Rico-Río Piedras Campus, San Juan Puerto Rico, March 2015.

"Synthesis and characterization of Ferrocenyl Oximes" Naishka E. Caldero Rodríguez; Ingrid Montes, Ph.D., 50th ACS Junior Technical Meeting, University of Puerto Rico, University of Puerto Rico-Río Piedras Campus, San Juan Puerto Rico, March 2015.

"Thiosemicarbazone-derivatives from Ferrocenyl Chalcones as Potential

Antibacterial and Atimalarial Agents" Andrés Molina Villarino, Ingrid Montes González, 50th ACS Junior Technical Meeting and 50th Puerto Rico Interdisciplinary Scientific Meeting (PRISM), University of Puerto Rico, Río Piedras Campus, PR, March 2015.

"Synthesis of Ferrocenyl Polymers for Potential Uses in Material Sciences" Rodríguez-Díaz, Giovanni ; Fajardo-Tolentino, Johanna; Enríquez-González, Yanira; Guadalupe-Quiñones, Ana R., Ph.D and Montes-González, Ingrid, Ph.D, 50th ACS Junior Technical Meeting, University of Puerto Rico, University of Puerto Rico-Río Piedras Campus, San Juan, PR, March 2014.

"Synthesis and Characterization of nonsymmetric ferrocenyl chalcone derivatives" Stephany M. Ramos De Dios and Ingrid Montes-González, Ph.D.

50th ACS Junior Technical Meeting, University of Puerto Rico, University of Puerto Rico-Río Piedras Campus, San Juan, PR, March 2014.

"Synthesis of nonsymmetric ferrocenyl chalcone derivatives". Stephany M. Ramos De Dios ; Myrna Otaño; Ingrid Montes-González, 38th ACS Senior Technical Meeting, San Juan, PR November 7, 2014.

"Heterocyclic ferrocenyl derivatives: An improvement in the backbone of bioactive compounds" Juan C. Aponte-Santini, Ingrid, Montes-González, Soraya Abdul-Hadi-Martínez, Fernando J. Correa-Delgado, David J. Sanabria-Ríos, María Del M. García-Maldonado, Ana R. Guadalupe-Quiñones, Emilee Colón-Lorenzo, Adelfa Serrano-Brizuela, and Fathi Halaweish, 38th ACS Senior Technical Meeting, San Juan, PR November 7, 2014.

"Programa de mentorías para química general: Un enfoque exitoso para capacitar a los estudiantes de primer año" Juan C. Aponte-Santini, Ingrid Montes-González, and Víctor E. Bonilla, 31^{er} Congreso Latinoamericano de Química CLAQ-2014, XXVII Congreso Peruano de Química, Lima, Perú, October 16, 2014.

"Synthesis and characterization of 3-(4-hydroxy-3-methoxyphenyl)ferrocenyl chalcones" Josué Rivera-Hernández; Myrna Otaño-Vega; María García; David Sanabria-Ríos, Ph.D.; Y. Rivera-Torres; R.Gutierrez-García; Ana Guadalupe, Ph.D.; Ingrid Montes, Ph.D. , 248th ACS National Meeting, San Francisco, CA, August 2014.

"Ferrocenyl Chalcones as Potential Precursors for Biosensors" Rodríguez-Díaz, Giovanni ; Fajardo-Tolentino, Johanna; Cedeño-Alicea, Julio; Enríquez-González, Yanira; Guadalupe-Quiñones, Ana R., Ph.D and Montes-González, Ingrid, Ph.D, 2014 Lilly Academy Technical Forum, Centro de Convenciones de Puerto Rico, San Juan, PR, March 2014.

"1,1'-Ferrocenyl chalcones derivatives: synthesis, characterization and electrochemical properties of potential biological active compounds" Ingrid Lehman Andino, Myrna R. Otaño Vega, Ingrid Montes González, Ph. D, 247th ACS

National Meeting, Dallas, TX, March 2014.

“Chemistry Ambassadors for Climate Science: a successful non-formal education program” María Rodríguez Guzman, Alba González, Joel Pérez, Ingrid Montes González, 247 th ACS National Meeting, Dallas, TX, March 2014.

“University of Puerto Rico - Río Piedras Campus: Leading an ongoing trajectory of impact” Adolfo Barragán Cabrera; Raúl E. Martínez Quiñones; Edmarie Santiago Aponte; Ingrid Montes González; 247 th ACS National Meeting, Dallas, TX, March

“Ferrocenyl chalcones framework: Leading the synthesis of biological active compounds” Juan C. Aponte-Santini, and Ingrid Montes-González, 247 th ACS National Meeting, Dallas, TX, March

“Synthesis of the Ferrocenyl Stilbene Derivatives” Sara M. Delgado-Rivera; Giovanni Rodríguez, and Ingrid Montes-González, Ph.D, 247 th ACS National Meeting, Dallas, TX, March 2014.

“Synthesis, Characterization, and Potential Applications of Ferrocenyl Chalcones Derivatives from 1, 1'-Diacetylferrocene” Ingrid Lehman Andino, Myrna R. Otano Vega, Naishka E. Caldero Rodríguez, Ingrid Montes González, 49th ACS Junior Technical Meeting, University of Puerto Rico, University of Puerto Rico-Cayey Campus, Cayey Puerto Rico, March 2014.

“Solvent free stereoselective reduction of cyclohexanone derivatives: an investigative approach for the undergraduate organic chemistry laboratory” Emmanuel López-Nogueras; Sara M.; Delgado-Rivera; David Sanabria and Ingrid Montes-González, 49th ACS Junior Technical Meeting, University of Puerto Rico, University of Puerto Rico-Cayey Campus, Cayey Puerto Rico, March 2014.

“Synthesis and characterization of Curcumin analogue” Josué Rivera Hernández, Myrna R. Otano Vega, María del Mar García, David Sanabria-Ríos, Ph. D., Ana R. Guadalupe, Ph. D., Ingrid Montes, Ph. D., 49th ACS Junior Technical Meeting, University of Puerto Rico, University of Puerto Rico-Cayey Campus, Cayey Puerto Rico, March 2014.

“Chemistry Ambassadors for Climate Science: a successful non-formal education program” María Rodríguez Guzmán, Ingrid Montes González, 49th ACS Junior Technical Meeting, University of Puerto Rico, University of Puerto Rico-Cayey Campus, Cayey Puerto Rico, March 2014.

“Ferrocenyl Chalcones as potential precursors for Ferrocene Polymers” Julio Cedeño, Johanna Fajardo, Ingrid Montes, Ph.D., Ana Guadalupe, Ph.D., 49th ACS Junior Technical Meeting, University of Puerto Rico, University of Puerto Rico-Cayey Campus, Cayey Puerto Rico, March 2014.

“Synthesis and characterization of 1,1'-diacetylferrocene derivatives as promising

biological active compounds" Ingrid Lehman Andino, Myrna R. Otano Vega, Ingrid Montes González, ABRCMS, Nashville, TN, November 2013.

"Designing a biological active framework based on ferrocenyl chalcones core"; Juan C. Aponte-Santini, Ingrid Montes-González, Fernando J. Correa-Delgado; David J. Sanabria-Ríos; Ana Guadalupe-Quiñones; Fathi Halaweish, Senior Technical Meeting PR Local Section, Aguadilla, PR, November 2013.

"University of Puerto Rico-Río Piedras ACS Student Chapter leading a footprint in our society" Adolfo E Barragán Cabrera; Raúl Martínez Quiñones; Edmarie Santiago Aponte; Ingrid Montes González, Senior Technical Meeting PR Local Section, Aguadilla, PR, November 2013.

"Solvent free stereoselective reduction of carbonyl groups" Emmanuel López-Nogueras; Sara M.; Delgado-Rivera, David Sanabria, and Ingrid Montes-González, 245 th ACS National Meeting, New Orleans, April 2013.

"Ferrocene Heterocyclic Derivatives: As potential biological active drugs" Juan C. Aponte-Santini, and Ingrid Montes-González, 245 th ACS National Meeting, New Orleans, April 2013.

"Synthesis of the Phenylethyne Ferrocene Derivatives" Jesús M. Dones-Monroig, Sara M Delgado-Rivera and Ingrid Montes-González, 245 th ACS National Meeting, New Orleans, April 2013.

"Non-symetric ferrocenyl chalcones as posible anti-cancer drugs" Sara M. Delgado-Rivera, and Ingrid Montes-González, 245 th ACS National Meeting, New Orleans, April 2013.

"History of Chemistry Capstone Course: New Solutions to an Old Problem" Alan Rodríguez and Ingrid Montes-González, 245 th ACS National Meeting, New Orleans, April 2013.

"Celebrating the 25th Anniversary of the National Chemistry Week" Orlando José Morales Martínez¹ and Ingrid Montes-González, 245 th ACS National Meeting, New Orleans, April 2013.

"Synthesis and Characterization of Ferrocenyl Chalcones as precursors for Ferrocene Polymers " Stephanie Rivera, Johanna Fajardo, and Ingrid Montes, 48th ACS Junior Technical Meeting, University of Puerto Rico, Carolina Campus, Turabo Puerto Rico, March 2013.

"Bridges Towards Sustainability: Non-traditional Strategies for Science Learning" Israel Méndez Bermúdez, María Rodríguez, Sara M. Delgado Rivera, Guzman, Isatis M. Cintrón Rodríguez, Carla Coste Sánchez, Ingrid Montes González, 48th ACS Junior Technical Meeting, University of Puerto Rico, Carolina Campus, Turabo Puerto Rico, March 2013.

"Bridging formal and non-formal learning to promote global sustainability" María Rodríguez, Sara M. Delgado Rivera, Guzman, Israel Méndez Bermúdez, Isatis M. Cintrón Rodríguez, Carla Coste Sánchez, Ingrid Montes González, 48th ACS Junior Technical Meeting, University of Puerto Rico, Carolina Campus, Turabo Puerto Rico, March 2013.

"Synthesis and characterization of a Curcumin analogue" Josué Rivera Hernández, Myrna R. Otano Vega, Ingrid Montes Gonzalez, 48th ACS Junior Technical Meeting, University of Puerto Rico, Carolina Campus, Turabo Puerto Rico, March 2013.

"Solvent Free Synthesis and Characterization of 1,1'-diacetylferrocene derivatives" Ingrid Lehman Andino, Myrna R. Otano Vega, Ingrid Montes González, 48th ACS Junior Technical Meeting, University of Puerto Rico, Carolina Campus, Turabo Puerto Rico, March 2013.

"Synthesis and Characterization of Ferrocenyl Chalcones Derivatives" Fernando J. Correa Delgado, Juan C. Aponte-Santini, and Ingrid Montes González, 48th ACS Junior Technical Meeting, University of Puerto Rico, Carolina Campus, Turabo Puerto Rico, March 2013.

"Solvent free stereoselective reduction of carbonyl groups: an investigative approach for the undergraduate organic chemistry laboratory" Emmanuel López - Nogueras; Sara M. Delgado-Rivera; David Sanabria and Ingrid Montes González , 48th ACS Junior Technical Meeting, University of Puerto Rico, Carolina Campus, Turabo Puerto Rico, March 2013.

"Heterocyclic Derivatives: Potential Biological Activity Enhancement of Ferrocenyl Chalcones" Aponte-Santini, Juan C. and Montes-González, Ingrid, RISE Area Conference, Isla Verde, Puerto Rico, March 2013.

"Applying Solvent-Free Conditions to the Synthesis of Ferrocenyl Chalcones Derivatives" Fernando J. Correa Delgado, Juan C. Aponte-Santini, and Ingrid Montes González, 244th ACS National Meeting, Philadelphia, August 2012.

"Synthesis and characterization of ferrocenyl chalcones from Claisen-Schmidt reaction in alcoholic and solvent-free media", Myrna R. Otaño-Vega, Ingrid Montes, Ph. D., 244th ACS National Meeting, Philadelphia, August 2012.

"Mentorship Program for the Freshmen General Chemistry Course", Juan C. Aponte-Santini^(a), Ingrid Montes, Ph.D.^(a) and Víctor E. Bonilla, Ph.D., 244th ACS National Meeting, Philadelphia, August 2012.

"Green Chemistry Gleam: A New Point of View in a Capstone Course", Sara M. Delgado-Rivera, Richard Rivera-Ocasio and Ingrid Montes-González, Ph.D. 16th Annual Green Chemistry & Engineering Conference, Washington, D.C., USA, June 2012.

"Green Chemistry: A New Approach for the Synthesis of Ferrocenyl Chalcones Derivatives", Juan C. Aponte-Santini and Ingrid Montes-González, Ph.D. 16th Annual Green Chemistry & Engineering Conference, Washington, D.C., USA, June 2012.

"Intercalation of a ferrocene derivative in zirconium phosphate layers", Francisco Martínez; Barbara Casañas; Ingrid, Montes; Jorge L. Colón; Intel International Science and Engineering Fair (ISEF), Pennsylvania, USA, Poster Presentation, May 2012.

"Intercalation of a ferrocene derivative in zirconium phosphate layers", Francisco Martínez; Barbara Casañas; Ingrid, Montes; Jorge L. Colón; Junior Science and Humanities Symposium (JSHS), Maryland, USA, Poster Presentation, May 2012.

"Heterocycles Functionalizing Ferrocenyl Chalcones Core", Juan C. Aponte-Santini, and Ingrid Montes González, 243rd ACS National Meeting, San Diego, CA, March 2012.

"Ferrocenyl Chalcones: A Claisen – Schmidt reaction for mono-, bis- and unsymmetrical derivatives", Myrna R. Otaño-Vega, Ingrid Montes González, Ph.D. 47th Junior Technical Meeting, University of Puerto Rico, Carolina Campus, Carolina Puerto Rico, March 2012.

"A Greener Approach for the Synthesis of Ferrocenyl Chalcones Derivatives", Fernando J. Correa Delgado, Juan C. Aponte-Santini, and Ingrid Montes González, . 47th Junior Technical Meeting, University of Puerto Rico, Carolina Campus, Carolina Puerto Rico, March 2012.

"Intercalation of a ferrocene derivative in zirconium phosphate layers", Francisco Martínez; Barbara Casañas; Ingrid, Montes; Jorge L. Colón; 2012 Junior Science and Humanities Symposium (PRJSHS), Puerto Rico, Poster Presentation, February 2012.

"Intercalation of a ferrocene derivative in zirconium phosphate layers", Francisco Martínez; Barbara Casañas; Jorge L. Colón; 35th American Chemical Society (ACS) Senior Technical Meeting PR Local Section, Dorado, PR, Poster Presentation, November 2011.

"Ferrocenyl Chalcones: Synthesis and Characterization of New Ferrocene Polymers" Johanna Fajardo, Janice Soto and Ingrid Montes, Ph.D., 35th Senior Technical Meeting, Embassy Suites Dorado Del Mar, Dorado, P.R., November 2011.

"Ferrocenyl Chalcones: Precursors for Heterocyclic Compounds", Juan C. Aponte-Santini, and Ingrid Montes González, 35th Senior Technical Meeting, Embassy Suites Dorado Del Mar, Dorado, P.R., November 2011.

"Ferrocenyl Chalcones as Precursors for Ferrocenyl Homopolymers", Johanna Fajardo, Janice Soto and Ingrid Montes, Ph.D., 35th Senior Technical Meeting, Embassy Suites Dorado Del Mar, Dorado, P.R., November 2011.

"Puerto Rico Local Section Women Chemists Committee", Rodríguez-Escudero, Idaliz; Otaño, Myrna R.;_Casañas Montes, Bárbara; Fajardo, Johanna; Montes, Ingrid, , 35th American Chemical Society (ACS) Senior Technical Meeting PR Local Section, Dorado, PR, Poster Presentation, November 2011.

"Synthesis and characterization of Ferrocenyl Chalcones: Advances to the syntheses of mono-, bis-, and unsymmetrical derivatives", Myrna R. Otaño-Vega, Ingrid Montes González, Ph.D. 35th Senior Technical Meeting, Embassy Suites Dorado del Mar, Dorado Puerto Rico, November 2011.

"Synthesis of ferrocenyl chalcones derivatives: Are we really "greening"it up?" Adriana Rodríguez, Myrna R. Otaño-Vega, Ingrid Montes González, Ph.D. 35th Senior Technical Meeting, Embassy Suites Dorado del Mar, Dorado Puerto Rico, November 2011.

"Synthesis and Characterization of New Ferrocene Polymers from Ferrocenyl Chalcones", Johanna Fajardo, Janice Soto and Ingrid Montes, Ph.D., 43rd IUPAC World Chemistry Congress/ 46th IUPAC General Assembly/ 70th CQPR Annual Conference and Exhibition, Conventional Center, San Juan, P.R., July 2011.

"Synthesis and Characterization of mono-, bis-, and unsymmetrical ferrocenyl chalcones", Myrna R. Otaño-Vega, Ingrid Montes González, Ph.D. 43rd IUPAC World Chemistry Congress, Puerto Rico Convention Center, San Juan Puerto Rico, July 2011.

"New approach for the preparation of alkyl iodides", Sara M. Delgado-Rivera, Ingrid Montes-González, Ph.D., Francisco J. Arnáiz, Ph.D. 43rd IUPAC World Chemistry Congress, Puerto Rico Convention Center, San Juan Puerto Rico, July 2011.

"A greener approach for the synthesis of ferrocenyl chalcone derivatives", Adriana Rodríguez, Myrna R. Otaño-Vega, Ingrid Montes González, Ph.D. 46th Junior Technical Meeting, Interamerican University, Bayamón Campus, Bayamón Puerto Rico, March 2011.

"Ferrocenyl Chalcones as Precursors for Ferrocene Polymers", Johanna Fajardo, Janice Soto and Ingrid Montes, Ph.D., PRISM/ ACS 46th Jr. Technical Meeting-Interamerican University of Puerto Rico, Bayamón, PR, March 2011.

"Synthesis and Characterization of New Ferrocene Polymers from Ferrocenyl Chalcones" Johanna Fajardo, Janice Soto and Ingrid Montes, Ph.D., PRISM/ ACS 46th Jr. Technical Meeting-Interamerican University of Puerto Rico, Bayamón, PR, March 2011.

"Ferrocenyl Chalcones: Precursors For Heterocyclic Compounds" Juan C. Aponte-Santini, Ingrid Montes-González, Ph.D. 35th ACS Senior Technical Meeting, Puerto Rico, November 2011.

"Functionalization of the Ferrocenyl Chalcones Framework", Juan C. Aponte-Santini, Ingrid Montes, Ph. D. 43rd IUPAC World Chemistry Congress, Puerto Rico, August 2011.

"Incorporation of Heterocycles in Ferrocenyl Chalcone Cores", Juan C. Aponte-Santini, Ingrid Montes, Ph. D., 241 th ACS National Meeting, Anaheim, CA, March 2011.

"Synthesis and Characterization of Ferrocenyl Chalcones Heterocyclic Derivatives", Juan C. Aponte-Santini, Ingrid Montes, Ph. D., PRISM/ACS Jr Technical Meeting, Puerto Rico, March 2011.

"Synthesis and characterization of ferrocenyl chalcones: Potential compounds against some diseases" Myrna R. Otaño-Vega, Ingrid Montes González, Ph.D. 240th ACS National Meeting, Boston MA, August, 2010.

"A greener approach for esterification reactions", Silvette Castro, Javier Escudero and Ingrid Montes, Ph.D. PRISM/ ACS 45th Jr. Technical Meeting-UPR-Mayagüez, Puerto Rico, March 2010.

"Synthesis of ferrocenyl chalcones from 1,1'- diacetylferrocene using new synthetic approach", Ninoshka M. Lafontaine, Myrna R. Otaño-Vega, Ingrid Montes González, Ph.D. PRISM/ ACS 45th Jr. Technical Meeting-UPR-Mayagüez, Puerto Rico, March 2010.

"Synthesis of Ferrocenyl Chalcones from Acetylferrocene and 1,1'- Diacetylferrocene and Some Applications", Myrna R. Otaño, Rocío Cardona, Ana Guadalupe, Ph.D. and Ingrid Montes, Ph.D., 61st Southeast Regional Meeting, San Juan, Puerto Rico, October 2009.

"Synthesis of Ferrocenyl Chalcones From 1,1'- Diacetylferrocene", Ninoshka Lafontaine, Myrna R. Otaño and Ingrid Montes, Ph.D., 61st Southeast Regional Meeting, San Juan, Puerto Rico, October 2009.

"Esterification Reactions Applying a Greener Approach", Silvette Castro, Javier Escudero and Ingrid Montes, Ph.D., 61st Southeast Regional Meeting, San Juan, Puerto Rico, October 2009.

"Melting Point Prediction of Different Organic Compounds", Iván Ojeda, Myreisa Morales, Natalia Hernandez and Ingrid Montes, Ph.D., 61st Southeast Regional Meeting, San Juan, Puerto Rico, October 2009.

"Electrochemical Studies of Ferrocene Chalcones Derivatives Immobilized in Nafion and Their Role as Mediators for the Oxidation of Compounds of Biological Importance" Kenneth Hernandez, Rocio del A. Cardona, Myrna R. Otaño, Ana Guadalupe, Ph.D. and Ingrid Montes, Ph.D., 61st Southeast Regional Meeting, San

Juan, Puerto Rico, October 2009.

"Electrochemical and Spectroscopical Characterization of Ferrocene Chalcones Derivatives: Cyclic Voltammetry, Diffusion Coefficients, Kinetics and UV-Visible", Rocío del A. Cardona, Kenneth Hernandez, Myrna R. Otaño, Ana Guadalupe, Ph.D. and Ingrid Montes, Ph.D., 61st Southeast Regional Meeting, San Juan, Puerto Rico, October 2009.

"Chemical Characterization of Metallocenes Derivatives Intercalated Into Zirconium Phosphate Layers", Barbara Casanas Montes, Jorge Colón, Ph.D. and Ingrid Montes, Ph.D. 61st Southeast Regional Meeting, San Juan, Puerto Rico, October 2009.

"How Does a Mentoring Program Influences the Freshmen Students of the General Chemistry Course?" Juan C. Aponte-Santini, Víctor E. Bonilla, Ph.D. and Ingrid Montes, Ph.D., 61st Southeast Regional Meeting, San Juan, Puerto Rico, October 2009.

"How the Affective Aspects Influencing the Students' Achievement in the Organic Chemistry Course?" Johanna Fajardo, Víctor E. Bonilla, Ph.D. and Ingrid Montes, Ph.D., 61st Southeast Regional Meeting, San Juan, Puerto Rico, October 2009.

"Enhancing the Academic Experience of the Graduate Students", Richard Rivera-Ocasio, Sara M. Delgado-Rivera and Ingrid Montes, Ph.D., 61st Southeast Regional Meeting, San Juan, Puerto Rico, October 2009.

"Community Service in Action: Chem-Clubs, UPR-RP ACS Chapter and SEGQuim", Yishara Chandler, Zulmarie Péerez, Soleyl Vázquez, Iliá Pérez and Ingrid Montes, 61st Southeast Regional Meeting, San Juan, Puerto Rico, October 2009.

"How Does a Mentoring Program Influences the Freshmen Students of the General Chemistry Course?" Juan C. Aponte-Santini, Víctor E. Bonilla, Ph.D. and Ingrid Montes, Ph.D., 238th ACS National Meeting and Exposition, Washington, DC, August 2009.

"How the Affective Aspects Influencing the Students' Achievement in the Organic Chemistry Course?" Johanna Fajardo, Víctor E. Bonilla, Ph.D. and Ingrid Montes, Ph.D., 238th ACS National Meeting and Exposition, Washington, DC, August 2009.

"Synthesis of Ferrocenyl Chalcones from Acetylferrocene and 1,1'- Diacetylferrocene and Some Applications", Myrna R. Otaño, Rocío Cardona, Ana Guadalupe, Ph.D. and Ingrid Montes, Ph.D., 238th ACS National Meeting and Exposition, Washington, DC, August 2009.

"Nickel Oxide Hydroxide: A Potential Oxidizing Agent", De la Torre, Sonia B.; Montes, Ingrid, 237th ACS National Meeting and Exposition, Salt Palace Convention Center in Salt Lake City, Utah. March 2009.

"Assessment of How the Selected Topics in Chemistry Course Influences in the Students of the General Chemistry Course" Juan C. Aponte-Santini, Ingrid Montes, Ph.D. and Víctor E. Bonilla, Ph.D., X Puerto Rican Congress of Investigation in the Education, San Juan, PR, March 2009.

"How the Affective Aspects of Students with Different Learning Styles Influence their Achievement in the Organic Chemistry Course", Johanna Fajardo, Ingrid Montes, Ph.D. and Víctor E. Bonilla, Ph.D., X Puerto Rican Congress of Investigation in the Education, San Juan, PR, March 2009.

"How the Affective Aspects of Students with Different Learning Styles Influence their Achievement in the Organic Chemistry Course" Johanna Fajardo, Ingrid Montes, Ph.D. and Víctor E. Bonilla, Ph.D., PRISM/ ACS 44th Jr. Technical Meeting-UPR-RP, PR, March 2009.

"Synthesis of Ferrocenyl Chalcones from Acetylferrocene and 1,1'-Diacetylferrocene", Otaño Vega, Myrna R., Montes, Ingrid, Ph. D. and Guadalupe, Ana Ph. D. PRISM/ACS 44th Jr. Technical Meeting UPR-RP, PR, March, 2009.

"Chemical and Electrochemical Characterization Of Metallocenes Derivatives Intercalated Into Zirconium Phosphate Layers", Casañas Montes, Bárbara; Morales, Mara; Miller, Andrismery; Ramirez, Jonathan; Sanchez, Yariel; Montes, Ingrid; Colón, Jorge L., 29th Puerto Rico Interdisciplinary Scientific Meeting (PRISM) and the 44th Jr. Technical Meeting, Río Piedras, PR, March 2009.

"Assessment of How the Selected Topics in Chemistry Course Influences in the Students of the General Chemistry Course", Juan C. Aponte-Santini, Ingrid Montes, Ph.D. and Víctor E. Bonilla, Ph.D., PRISM/ ACS 44th Jr. Technical Meeting-UPR-RP, PR, March 2009.

"Chemical and Electrochemical Characterization of Metallocenes Derivatives Intercalated into Zirconium Phosphate Layers", Casañas Montes, Bárbara; Miller, Andrismery; Morales, Mara; Ramirez, Jonathan; Sanchez, Yariel; Montes, Ingrid; Colón, Jorge L., The American Association for the Advancement of Science (AAAS) Annual Meeting, Chicago, IL, USA, Poster Presentation, February 2009.

"Oxidation Reactions using Nickel Oxide Hydroxide as the Oxidizing Agent", De la Torre, Sonia B.; Montes, Ingrid, University of Puerto Rico, Río Piedras Campus, San Juan, Puerto Rico. Annual Biomedical Research Conference for Minority Students 2008, Disney's Coronado Spring Resort in Orlando, Florida. November 2008.

"Ferrocene Chalcones Derivatives: Pyridines", Cardona, Rocío del A.; Hernández, Kenneth; Otaño, Myrna; Montes, Ingrid and Guadalupe, Ana R. Annual Biomedical Research Conference for Minority Students 2008, Disney's Coronado Spring Resort in Orlando, Florida. November 2008.

"Oxidation Reactions using Nickel Oxide Hydroxide as the Oxidizing Agent" De la

Torre, Sonia B.; Montes, Ingrid; University of Puerto Rico, Río Piedras Campus, San Juan, Puerto Rico. 32nd Senior Technical Meeting, Rincón of the Seas, Rincón, Puerto Rico. November 2008

"Oxidations Reactions: A Greener Approach" Sonia De la Torre and Ingrid Montes, Ph.D., 236th ACS Spring Nacional Meeting, Philadelphia, August 2008.

"How the Affective Aspects Influence the Students Achievement in the Organic Chemistry Course" Johanna Fajardo, Charlotte Cabello, Rafael Ramos Linnette Pruna, and Ingrid Montes, Ph.D., Latin American Federation of Chemical Associations (FLAQ) 28th Latin American Chemical Congress, Convention Center, PR., August 2008.

"Counterion Effects in the Nucleophilic Substitution Reaction of the Acetate Ion with Alkyl Bromides in the Synthesis of Ester", Elizabeth M. Valentín, Ingrid Montes and Waldemar Adam, Latin American Federation of Chemical Associations (FLAQ) 28th Latin American Chemical Congress, Convention Center, PR., August 2008.

"Oxidations Reactions: A Greener Approach", Sonia De la Torre and Ingrid Montes, Ph.D, Latin American Federation of Chemical Associations (FLAQ) 28th Latin American Chemical Congress, Convention Center, PR., August 2008.

"Implementing Portfolios as an Assessment Technique for the Organic Chemistry Laboratory", Johanna Fajardo, Rafael Ramos and Ingrid Montes, PR AGEB, San Juan, PR, July 2008.

"Synthesis and Potential Applications of Ferrocenyl Chalcone", Otaño Vega, Myrna R.; Cruz Montañez, Alejandra; Díaz Borrero, Cristina; Montes González, Ingrid and Guadalupe, Ana PR AGEP, San Juan, PR, July 2008.

"Immobilization of Ferrocene Chalcones Derivatives in the Presence of MW-Carbon Nanotubes: Biosensor Construction", Cardona, Rocío del A.; Díaz, Aileen; Otaño, Myrna; Montes, Ingrid and Guadalupe, Ana R. 28th Latin American Chemical Congress, San Juan, Puerto Rico. July 2008.

"Chemical and Electrochemical Characterization of Ferrocene Derivatives Intercalated into Zirconium Phosphate Layers by Direct Ion Exchange", Casañas Montes, Bárbara; Morales, Mara; Santiago, Mitk'El; Miller, Andrismery; Montes, Ingrid; Colón, Jorge L., 28th Latin American Chemical Congress, San Juan, PR, Poster Presentation, July 2008.

"Ferrocene Chalcones Derivatives as Labels for DNA Electrochemical Sensors", Cardona, Rocío del A.; Díaz, Aileen; Otaño, Myrna; Montes, Ingrid and Guadalupe, Ana R. 6th Annual ACS Summer School on Sustainability and Green Chemistry, Golden, Colorado. July 2008.

"Enhancing the Academic Experience in Graduate Chemistry School at the

University of Puerto Rico at Río Piedras Campus", Idaliz Rodríguez, Rubenier Montano and Ingrid Montes 235th ACS Spring Nacional Meeting, New Orleans, April 2008.

"Community Service ACS-Student Affiliate Chapter at the University of Puerto Rico, Río Piedras Campus", Anabel Pizarro, Sara M. Delgado, Melanie Rivera, Iliá Pérez, Glorimar Rivera, Gabriel J. Reyes, and Ingrid Montes 235th ACS Spring Nacional Meeting, New Orleans, April 2008.

"Chemical and Electrochemical Characterization of Ferrocene Derivatives Intercalated into Zirconium Phosphate Layers by Direct Ion Exchange", Casañas Montes, Bárbara; Morales, Mara; Santiago, Mitk'El; Miller, Andrismery; Montes, Ingrid; Colón, Jorge L., EPSCOR Annual Meeting, San Juan, PR, Poster Presentation, April 2008.

"Chemical and Electrochemical Characterization of Ferrocene Derivatives Intercalated into Zirconium Phosphate Layers by Direct Ion Exchange", Casañas Montes, Bárbara; Morales, Mara; Santiago, Mitk'El; Miller, Andrismery; Montes, Ingrid; Colón, Jorge L., 235th ACS National Meeting and Exposition, New Orleans, Louisiana, USA, Poster Presentation, April 2008.

"Chemical and Electrochemical Characterization of Ferrocene Derivatives Intercalated into Inorganic Layered Materials of Zirconium", Casañas Montes, Bárbara; Morales, Mara; Santiago, Mitk'El; Miller, Andrismery; Montes, Ingrid; Colón, Jorge L., phosphate, 28th Puerto Rico Interdisciplinary Scientific Meeting (PRISM) and the 43rd Junior Technical Meeting, Arecibo, PR, Poster Presentation, March 2008.

"Synthesis and Characterization of Ferrocenyl Chalcones", Myrna R. Otaño Vega, Alejandra Cruz, Cristina Díaz, Ingrid Montes, Ph. D. and Ana Guadalupe, Ph. D. 28th Puerto Rico Interdisciplinary Scientific Meeting (PRISM) and the 43rd Junior Technical Meeting, Arecibo, PR, Poster Presentation, March 2008.

"A Greener Approach for Oxidations Reactions", Sonia de la Torre and Ingrid Montes, Ph.D. 28th Puerto Rico Interdisciplinary Scientific Meeting (PRISM) and the 43rd Junior Technical Meeting, Arecibo, PR, Poster Presentation, March 2008.

"How the Affective Aspects of Students with Different Learning Styles Influence their Achievement in the Organic Chemistry Course", Johanna Fajardo, Charlotte Cabello, Rafael Ramos Linnette Pruna, and Ingrid Montes 28th Puerto Rico Interdisciplinary Scientific Meeting (PRISM) and the 43rd Junior Technical Meeting, Arecibo, PR, Poster Presentation, March 2008.

"Synthesis of Ferrocenyl Alkenes Compounds", Mara Morales, Bárbara Casañas and Ingrid Montes, 28th Puerto Rico Interdisciplinary Scientific Meeting (PRISM) and the 43rd Junior Technical Meeting, Arecibo, PR, Poster Presentation, March 2008.

"The Use of the Evaluation Portfolio in the Organic Chemistry Laboratory as an Assessment Technique", Fajardo, Johanna, Ramos Rafael and Montes, Ingrid, Ph.D.,

28th Puerto Rico Interdisciplinary Scientific Meeting (PRISM) and the 43rd Junior Technical Meeting, Arecibo, PR, Poster Presentation, March 2008

"A Guided Inquiry Experiment for Organic Chemistry: Synthesis of Ferrocene Derivatives" by a Claisen-Schmidt Condensation Reaction, Alejandra Cruz, Wanda Cuadrado, Cristina Díaz, Myrna Otaño and Ingrid Montes, 31st ACS Senior Technical Meeting, Mayaguez, PR, November 2007.

"Synthesis of 1-aryl-3-ferrocenylprop-2-ene-1-ones", Mara Morales and Ingrid Montes, 31st ACS Senior Technical Meeting, Mayaguez, PR, November 2007.

"Characterization of Ferrocene Derivatives Intercalation Into Zirconium Phosphate Layers By Direct Ion Exchange For Electrochemical Applications", Casañas Montes, Bárbara, Morales García, Mara; Santiago Berríos, Mitk'El B.; Montes, Ingrid and Colón, Jorge L, 31st ACS Senior Technical Meeting, Mayaguez, PR, November 2007.

"Implementing Portfolios as an Assessment Technique for the Organic Chemistry Laboratory", Fajardo, Johanna, Ramos Rafael and Montes, Ingrid, 31st ACS Senior Technical Meeting, Mayaguez, PR, November 2007.

"Synthesis of Ferrocenyl Chalcones", Myrna Otaño, Alejandra Cruz, Cristina Díaz, Ingrid Montes, Ph.D. and Ana Guadalupe, Ph.D., 31st ACS Senior Technical Meeting, Mayaguez, PR, November 2007.

"An Innovative Way to Introduce Students to Discuss Ethics", Adriana Padilla, Atenaida Maldonado, Solymar Negretti, and Ingrid Montes, Ph.D., 31st ACS Senior Technical Meeting, Mayaguez, PR, November 2007.

"Ferrocene Chalcone Derivatives as Labels for DNA Electrochemical Sensors", Rocío Cardona, Ingrid Montes, Ph.D. and Ana Guadalupe, Ph.D., Partnership for Research and Education in Materials (PREM)-NSF 4th Site Visit. University of Puerto Rico; Humacao, Puerto Rico, November 2007.

"Ferrocene Derivatives and their Application in Biotechnology", Rocío Cardona, Ingrid Montes, Ph.D. and Ana Guadalupe, Ph.D., 31st ACS Senior Technical Meeting. Mayaguez Resort and Casino; Mayaguez, Puerto Rico. (Poster Presentation) November 2007.

"Ferrocene derivatives intercalated in 10.3 Å ZrP", Casañas Montes, Bárbara; Morales García, Mara; Santiago Berríos, Mitk'El B.; Montes, Ingrid; Colón, Jorge, AAAS Caribbean Division Annual Conference, Bayamón, PR October 2007.

"Characterization of Novel Ferrocene Derivatives", Rocío Cardona, Ingrid Montes, Ph.D. and Ana Guadalupe, AAAS Caribbean Division Annual Conference, Bayamón, PR October 2007.

"Characterization of inorganic complexes intercalated into zirconium phosphate layers for electrochemical applications", Casañas Montes, Bárbara Morales García, Mara; Santiago Berríos, Mitk'El B.; Montes, Ingrid Ph.D., Colón, Jorge, Ph.D.; AAAS Caribbean Division Annual Conference, Bayamón, PR October 2007.

116."Characterization of Inorganic Complexes Intercalated into Zirconium Phosphate Layers for Electrochemical Applications", Casañas Montes, Bárbara Morales García, Mara; Santiago Berríos, Mitk'El B.; Montes, Ingrid; Colón, Jorge, "2007 Annual Best Practices Conference on Teaching and Learning", Embassy Suites Hotel, Dorado del Mar, October 2007.

"Characterization of Inorganic Complexes Intercalated into Zirconium Phosphate Layers for Electrochemical Applications", Casañas Montes, Bárbara; Morales García, Mara; Santiago Berríos, Mitk'El B.; Montes, Ingrid; Colón, Jorge L. JAM-NSF, Washington D.C., USA, August 2007.

"Characterization of Novel Ferrocene Derivatives", Rocío Cardona, Ingrid Montes, Ph.D.and Ana Guadalupe Ph.D., AGEP 5th Poster Presentation for Graduate Research. University of Puerto Rico; Río Piedras, Puerto Rico, July 2007.

"Characterization of Novel Ferrocene Derivatives", Rocío Cardona, Ingrid Montes, Ph.D.and Ana Guadalupe, Ph.D., International Symposium on Advanced Material: Building Functional Systems via Self-assembly. Palmas del Mar; Humacao, Puerto Rico, April 2007.

"Characterization of Novel Ferrocene Derivatives", Rocío Cardona, Ingrid Montes, Ph.D.and Ana Guadalupe, Ph.D., MGE- WAESO. Arizona State University; Arizona, USA, April 2007.

"Electrochemical and Spectrophotometric Characterization of Novel Ferrocene Derivatives", Rocío Cardona, Ingrid Montes, Ph.D. and Ana Guadalupe, Ph.D., 243rd ACS National Meeting. Chicago; Illinois, USA, March 2007.

"Characterization of Inorganic Complexes Intercalated into Zirconium Phosphate Layers for Electrochemical Applications", Casañas Montes, Bárbara; Morales García, Mara; Santiago Berríos, Mitk'El B.; Montes, Ingrid; Colón, Jorge L, 27th Puerto Rico Interdisciplinary Scientific Meeting (PRISM) and the 42nd JUNIOR TECHNICAL MEETING, Bayamón, PR, March, \ 2007.

"An Integrated Inquiry-Guided Approach Laboratory Experience to Teach: Extraction, Recrystallization and Melting Point Determination", Linnette Pruna, Johanna Fajardo and Ingrid Montes, ACS-233st National Meeting, Chicago, March 2007.

"A Greener Approach for Esterification Reactions", Javier Escudero and Ingrid Montes, Ph.D., ACS-233st National Meeting, Chicago, March 2007.

"A History of Outstanding Activities of the ACS-Student Affiliates Chapter at the University of Puerto Rico, Río Piedras Campus", Anabel Pizarro and Ingrid Montes*, ACS-233st National Meeting, Chicago, March 2007.

"An Innovative Way To Introduce Students To Discuss About Ethical Misconduct", Adriana Padilla, Atenaida Maldonado, Solymar Negretti and Ingrid Montes, ACS-233st National Meeting, Chicago, March 2007.

"Electrochemical Characterization of Novel Ferrocene Derivatives", Maria del Mar García, Rocío Cardona, Ingrid Montes, Ana Guadalupe, ACS-233st National Meeting, Chicago, March 2007.

"An Integrated Inquiry-Guided Approach Laboratory Experience to Teach: Extraction, Recrystallization and Melting Point Determination", Linnette Pruna, Johanna Fajardo and Ingrid Montes, PRISM/ ACS Jr. Technical Meeting-Inter-Bayamón, PR, March 2007.

"A Greener Approach for Esterification Reactions", Javier Escudero and Ingrid Montes, Ph.D., PRISM/ ACS Jr. Technical Meeting-Inter-Bayamón, PR, March 2007.

"Synthesis of Ferrocenyldienones Derivatives, Alejandra Cruz", Ingrid Montes, Ph.D., Ana Guadalupe, Ph.D., PRISM/ ACS Jr. Technical Meeting-Inter-Bayamón, PR, March 2007.

"An Innovative Way To Introduce Students To Discuss About Ethical Misconduct", Adriana Padilla, Atenaida Maldonado, Solymar Negretti and Ingrid Montes, PRISM/ ACS Jr. Technical Meeting-Inter-Bayamón, PR, March 2007.

"Characterization of Inorganic Complexes Intercalated into Zirconium Phosphate Layers for Electrochemical Applications", Barbara Casanas, Mara Morales, Ingrid Montes, Jorge Colon, Mitk'el Santiago, PRISM/ ACS Jr. Technical Meeting-Inter-Bayamón, PR, March 2007.

"Spectroscopic Characterization of Novel Ferrocene Derivatives", Yanira Enriquez, Christia Rivera, Laura Pedro, Ingrid Montes, Ana Guadalupe, PRISM/ ACS Jr. Technical Meeting-Inter-Bayamón, PR, March 2007.

"Electrochemical Characterization of Novel Ferrocen Derivatives", Maria del Mar García, Rocío Cardona, Ingrid Montes, Ana Guadalupe, PRISM/ ACS Jr. Technical Meeting-Inter-Bayamón, PR, March 2007.

"Celebrating Fifty Years of History for the University of Puerto Rico-Río Piedras ACS Student Affiliate Program", Anabel Pizarro and Ingrid Montes, Senior Technical Meeting, Dorado, PR, November 2006.

"Electrochemical and Spectrophotometric Characterization of Novel Ferrocene Derivatives", Rocío Cardona, Ingrid Montes, Ana Guadalupe, Partnership for Research and Education in Materials (PREM)-NSF 4th Site Visit. University of Puerto Rico; Humacao, Puerto Rico, November 2006.

"Electrochemical and Spectrophotometric Characterization of Novel Ferrocene Derivatives", Rocío Cardona, Ingrid Montes, Ana Guadalupe, 13th Chemical and Engineering Symposium XXX Senior Technical Meeting of the ACS. Embassy Suites; Dorado, Puerto Rico, November 2006.

"An Ethnographic Study of How Newly Designed Inquiry-Based Organic Experiments that Address Different Learning Styles Affect the Teaching-Learning Process in the Laboratory Course", Sanabria-Ríos, David and Montes, Ingrid, 232nd ACS Meeting, San Francisco, CA, September 2006 and BCCE, Purdue University, August 2006.

"Guided Inquiry Approach for a Systematic Study on the Stereoselective Reduction of Carbonyl Moiety Using Microwave Irradiation", Alejandra Cruz, David Sanabria, Ingrid Montes Ph.D., ACS-231st National Meeting, Atlanta GA., March 2006.

"Alternative approach to teach ethics and green chemistry", Vilmali López, Atenaida Maldonado, Adriana Padilla, Luis A. Serrano and Ingrid Montes, Ph.D., ACS-231st National Meeting, Atlanta GA, March 2006.

"Celebrating Fifty Years of History for the University of Puerto Rico-Río Piedras ACS Student Affiliate Program", Manuel Rodríguez and Ingrid Montes, Ph.D., ACS-231st National Meeting, Atlanta GA, March 2006.

"A Greener Systematic Study on the Stereoselective Reduction of Carbonyl Moiety Using Microwave Irradiation", Alejandra Cruz, David Sanabria, Ingrid Montes, Ph.D., PRISM/ ACS Jr. Technical Meeting-UPR-Cayey, PR, March 2006.

"Guided Inquiry Approach for a Systematic Study on the Stereoselective Reduction of Carbonyl Moiety Using Microwave Irradiation", David Sanabria, Alejandra Cruz, Ingrid Montes, Ph.D., PRISM/ ACS Jr. Technical Meeting-UPR-Cayey, PR, March 2006.

"Electrochemical and Spectrophotometric Characterization of Novel Ferrocene Derivatives", Rocío Cardona, Ingrid Montes, Ana Guadalupe, AGEP 4th Poster Presentation for Graduate Research. University of Puerto Rico; Río Piedras, Puerto

Rico, July 2006.

"An Ethnographic Study of How Newly Designed Inquiry-Based Organic Experiments that Address Different Learning Styles Affect the Teaching-Learning Process in the Laboratory Course", Sanabria-Ríos, David and Montes, Ingrid, 29th ACS Senior Technical Meeting, Lajas, P.R., November 2005.

"The Portfolio: A Valuable Assessment Technique for the Organic Chemistry Laboratory", Fajardo, Johanna and Montes, Ingrid, 29th ACS Senior Technical Meeting, Lajas, P.R., November 2005.

"A Guided Inquiry Approach for the Synthesis of Artificial Flavorings. Studying the Effect of the Acetate Counterion in an SN2 Reaction", Elizabeth Valentín, Ingrid Montes, 29th ACS Senior Technical Meeting, Lajas, P.R., November 2005.

"An Ethnographic Study of How Newly Designed Inquiry-Based Organic Experiments that Address Different Learning Styles Affect the Teaching-Learning Process in the Laboratory Course", Sanabria-Ríos, David and Montes, Ingrid, 230th ACS National Meeting, Washington, DC, August 2005.

"A Guided Inquiry Approach for the Synthesis of Artificial Flavorings. Studying the Effect of the Acetate Counterion in an SN2 Reaction", Elizabeth Valentín, Ingrid Montes, Third Poster Presentation-College of Natural Sciences, July 2005.

"An Ethnographic Study of How Newly Designed Inquiry-Based Organic Experiments that Address Different Learning Styles Affect the Teaching-Learning Process in the Laboratory Course", Sanabria-Ríos, David and Montes, Ingrid, Third Poster Presentation-College of Natural Sciences, July 2005.

"Innovative Activities Grant for the 2004-05 ACS-Student Affiliates Chapter at the University of Puerto Rico, Río Piedras Campus", Manuel Rodríguez, Ingrid Montes, 229 ACS National Meeting, San Diego, CA, March 2005.

"A Green Chemistry Multi-step Synthesis of Ferrocene Derivatives Using the Guided Inquiry Approach", Wanda Cuadrado, Cristina Díaz and Ingrid Montes, 226th ACS National Meeting, New York, September 2003.

"The Application of Stereochemistry in the Pharmaceutical Industry: An Innovative Way to Teach Stereochemistry Using Molecular Modeling", Marilyn García, Michelle Burgos, José A. Prieto and Ingrid Montes, 226th ACS National Meeting, New York, September 2003.

"A Greener Approach to Synthesize Aspirin Using Microwave Irradiation", David Sanabria Ríos, Marilyn García and Ingrid Montes, 226th ACS National Meeting, New York, September 2003.

"A Greener Approach to Synthesize Aspirin Using Microwave Irradiation", David Sanabria Ríos, Marilyn García and Ingrid Montes, Primera Presentación de Afiches para Estudiantes Graduados-Facultad de Ciencias Naturales, Univ. De Puerto Rico-Recinto de Río Piedras, July 2003.

"A Greener Approach to Synthesize Aspirin Using Microwave Irradiation", David Sanabria Ríos, Marilyn García and Ingrid Montes, PRCHEM-2003, Westin Río Mar Hotel, Río Grande Puerto Rico, July 2003

"A Green Chemistry Multi-step Synthesis of Ferrocene Derivatives Using the Guided Inquiry Approach", Wanda Cuadrado, Cristina Díaz and Ingrid Montes, 38th Junior Technical Meeting, San Juan, P.R., March 2003.

"A Guided Inquiry Approach for Several Esterification Reaction Routes to Synthesize Artificial Flavorings", Elizabeth Valentin, Myrella Aponte, Joel Cruz, Johanna Fajardo and Ingrid Montes, 38th Junior Technical Meeting, San Juan, P.R., March 2003.

"What is Beyond the University of Puerto Rico-Río Piedras ACS Student Affiliate Program", Victor Rodríguez and Ingrid Montes, 38th Junior Technical Meeting, San Juan, P.R., March 2003.

"The Application of Stereochemistry in the Pharmaceutical Industry: An Innovative Way to Teach Stereochemistry Using Molecular Modeling", Marilyn García, Michelle Burgos, José A. Prieto and Ingrid Montes, 26th ACS Senior Technical Meeting, San Juan, P.R., August 2002.

"Synthesis of Pharmaceutical Drugs Using Microwave Irradiation", David Sanabria, Marilyn García and Ingrid Montes, 26th ACS Senior Technical Meeting, San Juan, P.R., August 2002.

"A Guided Inquiry Experience Based on the Extraction Technique", Johanna Fajardo, Chunqiu Lai, Leslie Silvestriz and Ingrid Montes, 26th ACS Senior Technical Meeting, San Juan, P.R., August 2002.

"National Chemistry Week (NCW) Community Interaction Activities Conducted by the ACS Student Affiliates Chapters at the University of Puerto Rico, Río Piedras Campus", Victor Rodriguez and Ingrid Montes, 26th ACS Senior Technical Meeting, San Juan, P.R., August 2002.

"National Chemistry Week community interaction activities conducted by the ACS Student Affiliate Program At The University of Puerto Rico, Río Piedras Campus", Cruz

Maldonado and Ingrid Montes, 223rd ACS National Meeting, Orlando, March 2002.

"The Use of Microwave Irradiation in the Synthesis of Pharmaceutical Drugs", David Sanabria, Marilyn García, Ingrid Montes, 37th Junior Technical Meeting, Arecibo, P.R., March 2002.

"A Guided Inquiry Experience Based on the Extraction Technique", Johanna Fajardo, Chunqiu Lai, Leslie Silvestriz and Ingrid Montes, 37th Junior Technical Meeting, Arecibo, P.R., March 2002.

"An Innovative Way to Teach Stereochemistry Using Molecular Modeling", Marilyn García, Ingrid Montes and José A. Prieto, 37th Junior Technical Meeting, Arecibo, P.R., March 2002.

"Development of web-based laboratory modules for Organic Chemistry for Chemistry Majors Course", Diana L. Santiago, Ingrid Montes and José A. Prieto, 37th Junior Technical Meeting, Arecibo, P.R., March 2002.

"Outcomes of the Innovative Activities and Community Interaction Grants Conducted by the ACS Student Affiliate Program at the University of Puerto Rico", Río Piedras Campus, Cruz Maldonado and Ingrid Montes, 222th ACS National Meeting, Chicago, August 2001.

"Using the Guided Inquiry Approach In Qualitative Organic Analysis", Alberto Maldonado and Ingrid Montes, 221th ACS National Meeting, San Diego, CA., April 2001.

"The use of Microwave Irradiation in the Organic Chemistry Laboratory", Marilyn García and Ingrid Montes, 221th ACS National Meeting, San Diego, CA., April 2001.

"A Broad Spectrum of Innovative Activities Worked by the ACS Student Affiliate Program at the University of Puerto Rico, Río Piedras Campus", Sergio Nanita and Ingrid Montes, 221th ACS National Meeting, San Diego, CA., April 2001.

"Using the Guided Inquiry Approach in Qualitative Organic Analysis", Alberto Maldonado and Ingrid Montes, 36th Junior Technical Meeting, Ponce, P.R., March 2001.

"The Use of Microwave Irradiation in the Organic Chemistry Laboratory", Marilyn García and Ingrid Montes, 36th Junior Technical Meeting, Ponce, P.R., March 2001.

"An Alternative for Teaching the "Like Dissolves Like" Concept", David Sanabria

Chunqiu Lai and Ingrid Montes, 36th Junior Technical Meeting, Ponce, P.R., March 2001.

"Systematic Study of Esterification Reactions Focused on the Guided Inquiry Approach", Myrella Aponte, Joel Cruz, Michelle Burgos, Johanna Fajardo, Leslie Silvestriz and Ingrid Montes, 36th Junior Technical Meeting, Ponce, P.R., March 2001.

"Using the Guided Inquiry Approach in Qualitative Organic Analysis", Alberto Maldonado and Ingrid Montes, 24th ACS Senior Technical Meeting, Aguadilla, P.R., November 2000.

"New Alternatives for Teaching Organic Chemistry Using Molecular Modeling", Marilyn García and Ingrid Montes, 220th ACS National Meeting, Washington, D.C., August 2000.

"ACS Student Affiliate Program at the University of Puerto Rico, Río Piedras Campus: Innovative Activities and Community Interaction Grants", Lucas Hernández and Ingrid Montes, 220th ACS National Meeting, Washington, D.C., August 2000.

"New Alternatives for Teaching Organic Chemistry using Molecular Modeling", Marilyn García and Ingrid Montes, First ACS Undergraduate Pan American Conference, San Juan, Puerto Rico, June 2000.

"What is Beyond the ACS Student Affiliate Program at the University of Puerto Rico, Río Piedras Campus?", Lucas Hernández and Ingrid Montes, 219th ACS National Meeting, San Francisco, March 2000.

"A New Approach to Teach Chromatography in the Organic Chemistry Laboratory", Margarita Meléndez and Ingrid Montes, 35th Junior Technical Meeting, Río Piedras, P.R., March 2000.

"Introducing Molecular Modeling in the Organic Chemistry Course for Majors", Marilyn García, and Ingrid Montes, 35th Junior Technical Meeting, Río Piedras, P.R., March 2000.

"The use of the World Wide Web in the Organic Chemistry Course for Majors", Humberto Rodríguez, Ingrid Montes* and José A. Prieto, 23th ACS Senior Technical Meeting, Humacao, P.R., November 1999.

"Systematic Study of the Grignard Reaction Focused on the Guided Inquiry Approach", Margarita Meléndez, Zaida Díaz and Ingrid Montes, 23th ACS Senior

Technical Meeting, Humacao, P.R., November 1999.

"Introducing Molecular Modeling in the Organic Chemistry Course for Majors", Marilyn García, and Ingrid Montes, 23th ACS Senior Technical Meeting, Humacao, P.R., November 1999.

"An Innovative Way to Teach Stereochemistry with Molecular Modeling in the Organic Chemistry Course for Majors", Michelle Burgos, Marina Martínez, Marilyn García and Ingrid Montes, 23th ACS Senior Technical Meeting, Humacao, P.R., November 1999.

"Utilizing Ferrocene Chemistry to Merge Concepts of Organic, Inorganic and Analytical Chemistry In The Undergraduate Laboratory Experience", Zhiqin Ji, J. Colón, A. Guadalupe, J. Prieto and I. Montes, 34th Junior Technical Meeting, Bayamón, P.R., March 1999.

"Systematic Study of the Grignard Reaction Focused on the Problem Based Learning Approach", Margarita Meléndez, Zaida Díaz and Ingrid Montes, 34th Junior Technical Meeting, Bayamón, P.R., March 1999.

"A New Approach for the Synthesis of Dibenzalacetone", Chunqiu Lai, I. Montes and Helena Rivera, 33th Junior Technical Meeting, Bayamón, P.R., March 1998.

"Implementing the World Wide Web as Part of the Organic Chemistry Course for Majors", D. Reyes, I. Montes and J. Prieto, 33th Junior Technical Meeting, Bayamón, P.R., March 1998.

Chaired/Organized Symposia at Meetings

2011 PI and organizer "Are women still underrepresented in science?" IYC Challenge Grant project, 43rd IUPAC World Chemistry Congress/ 46th IUPAC General Assembly/ 70th CQPR Annual Conference and Exhibition, Conventional Center, San Juan, P.R., August 2011.

2011 Organizer Young Chemistry Ambassador Workshop, 43rd IUPAC World Chemistry Congress/ 46th IUPAC General Assembly/ 70th CQPR Annual Conference and Exhibition, Conventional Center, San Juan, P.R., July 2011.

2011 Water Global Experiment Workshop and Booth Organizer, 43rd IUPAC World Chemistry Congress/ 46th IUPAC General Assembly/ 70th CQPR Annual Conference and Exhibition, Conventional Center, San Juan, P.R., July 2011.

- 2009 General Chair of South East Regional Meeting- American Chemical Society National Meeting, Puerto Rico in Fall 2009.
- 2007 Co-chair of the Chemical Education Division Program at the American Chemical Society National Meeting, Boston in Fall 2007.
- 2006 Organizer of Green Chemistry Continuing Education - PR Chem, Puerto Rico in August 2006.
- 2005 Organizer of Capstone Symposium - Chemical Education Division Program at the American Chemical Society National Meeting, Washington in Fall 2005.
- 2005 Organizer of the General Posters Chemical Education Division Program at the American Chemical Society National Meeting, Washington in Fall 2005.
- 2000 Program Coordinator for the first Pan-American Congress for undergraduates, P.R.
- 2000 Program Chair for undergraduate program of the 220th ACS National Meeting, August 2000, Washington, D.C.
- 2000 P.R. Coordinator of U.S. National Chemistry Olympiad 1995.
- 1990 - 2000
2003 - Present P.R. Coordinator of National Chemistry Week
- 1994 - Present Coordinator of Teaching Assistant Training, AGEP Program, UPR, Río Piedras, Puerto Rico
- 1993 Coordinator of 28th Jr. Technical Meeting, American Chemical Society, UPR-Río Piedras, March 1993.
- 1991 Coordinator of a Symposium "The Environmental Impact of Solid Waste in Puerto Rico", Environmental Quality Board, Solid Wastes Authority, Safety-Kleen Inc. and UPR, UPR-Río Piedras, October 1991.
- 1991 Coordinator of the Teaching Assistant Training, University of Puerto Rico, Río Piedras, P.R., August 1991.
- 1991 Coordinator of the Safety Week, August 20-25, 1991, which includes conferences about safety and first aid in laboratories.
- 1990 Coordinator of the 14th Senior Technical Meeting, Río Piedras,

December 1990.

Honors and Awards

- 2013 – 2015 Director-at-Large, Board of Directors, American Chemical Society
- 2013 Honorary Member, Golden Key International Honour Society
- 2011 2012 American Chemical Society Volunteer Service Award
- 2010 Fellow ACS (American Chemical Society)
- 2009 Nominated for the 2009 U.S Professors Years Program sponsored by CASE
- 2008 Nominated for The National Society of Collegiate Scholars (NSCS) 2009 Inspire Integrity Award
- 2008 While Coordinator of the ACS Puerto Rico Local Section, National Chemistry Week and Chemists Celebrate Earth Day two ChemLuminary Awards were awarded to the Puerto Rico Section
- 2006 Leonardo Igaravidez Award, American Chemical Society, Puerto Rico Section
- 2006 Fellow-IUPAC (International Pure and Applied Chemistry)
- 2005 Outstanding Volunteer Service Plaque, ACS President
- 2004 Salute to Excellence Awarded by Committee on Community Activities-NCW Coordinator for ten years.
- 1995, 1999, 2000,
2004, 2005, 2007,
2008 (2), 2009,
2010, 2011(3),
2012 (1), 2013 (2)
2014 (1)
- 2003 While Chair of the ACS Puerto Rico Local Section, the SOCED Certificate of Excellence was awarded to the Puerto Rico Section Best Interaction with SA.
- 2002 - Present Who's Who Among America's Teachers

- 1999 Chemical Education Award, American Chemical Society, Puerto Rico Section
- 1997 Excellence and Productivity Award, University of Puerto Rico, Río Piedras Campus.
- 1997 Nominated by the Puerto Rico Local Section for the American Chemical Society Hellen Free Award
- 1995 While President of the ACS Puerto Rico Local Section, the National Chemistry Week Phoenix Award and a Certificate of Excellence in the medium-small category was awarded to the Puerto Rico Section.
- 1981 - 1984 Research Fellow of the NIH-MBRS Program
- 1980 Graduated Magna Cum Laude
- 1979 -1980 Undergraduate Research Fellow of NIH-MBRS Program

Research Support

- 2006 Green Chemistry, Pfizer Pharmaceutical
- 2006 How The Affective Aspects of Students with Different Learning Styles Influence their Achievement in the Organic Chemistry Course, FIPI- "Scholarship of teaching and learning", UPR-RP
- 2001 Reconceptualización del bachillerato: Facultad de Ciencias Naturales", President, UPR-RP.
- 2000 Desarrollo de nuevas experiencias de laboratorio no-tradicionales para el curso de Química Orgánica, FIPI, UPR-RP
- 1998 Problem Based learning in the Organic Chemistry Laboratory, Minority Science Improvement Program (MSIP),
- 1996 Improving Students Outcomes in Entry Level Chemistry (MARC Supplement Grant) submitted to Department of Health and Human Services
- 1995 Training for Teaching Assistants, submitted to the Dean of Graduate Studies, University of Puerto Rico
- 1995 Marc Honors Undergraduate Research Training Program, NIH, Reginald Morales PI, Ingrid Montes co-PI

- 1993 Problem Solving Skills for Hispanic Chemistry Students, Minority Science Improvement Program (MSIP).
- 1992 High School Microscale Laboratory: An Approach to Achieve Safety, Cost Effectiveness and Versatility, P.R. Council on Higher Education (Title II)
- 1990 Design of a new course based on Management, Recycle & Storage of Hazardous Waste, Howard Hughes Foundation Program, University of Puerto Rico, Río Piedras Campus, March 1990
- 1985 I. Montes, Studies in Molluscicidal Activity of some Sesquiterpene Lactones, University of Puerto Rico, Medical Sciences Campus, MBRS Program

Collaborators

Mahesh Narayan, University of Texas, El Paso.

Adelfa Serrano, Ph.D., University of Puerto Rico, Medical Sciences Campus.

Dr. Fathi Halaweish from South Dakota State University in Brookyns South Dakota.

David Sanabria, Ph.D., InterAmerican University-Metropolitan Campus.

Ana Guadalupe, Ph.D.,_Department of Chemistry, University of Puerto Rico, Río Piedras Campus.

Ana Guadalupe, Rocío Cardona, Kenneth Hernandez, Laura Pedro, Myrna Otaño, and Ingrid Montes "Electrochemical and Spectroscopical Characterization of Ferrocenyl Chalcones" *Journal of The Electrochemical Society*, **2010**, 157, 104-110.

Jorge Colón, Ph.D., Department of Chemistry, University of Puerto Rico, Río Piedras Campus.

Victor Bonilla, Ph.D., College of Education, Department of Graduate Studies, University of Puerto Rico, Río Piedras Campus.

Reinaldo Berríos, Ph.D., College of Education, Department of Graduate Studies, University of Puerto Rico, Río Piedras Campus.

Francisco Arnáiz, Ph. D., Universidad de Burgos, Spain- Sabbatical 2010-2011.

"La reacción del yodo con el aluminio. Un proyecto para el laboratorio integrado"
Sara M. Delgado, Ingrid Montes, Ph.D., Francisco J. Arnáiz, Ph.D. XXXIII Reunión Bienal de Química de la Real Sociedad Española de Química, Valencia, Spain, July, 2011.

Research with students

Thesis Advisor Graduates

David Sanabria, Ph.D.	Fall 2001 to December 2006
Myrna Otaño, MS.	Summer 2008 to February 2014
Johanna Fajardo, MS.	January 2009 to May 2014
Juan C. Aponte, Ph.D.	Summer 2009
Sara Delgado	Summer 2009

Thesis Co-Advisor

Rocío Cardona, Ph.D.	August 2007 to August 2011
Mara Morales, MS in Education	August 2011

Undergraduates

Chemical Education

Helena Rivera	Inquiry Based Labs	Aldol Reactions
Margarita Meléndez	Inquiry Based Labs	Grignard Reaction
Zaida Díaz	Inquiry Based Labs	Grignard Reactions
Marilyn García	Molecular Modeling Modules	Green Chemistry
Michelle Burgos	Molecular Modeling	Stereochemistry
Johanna Fajardo	Inquiry Based Labs	Extraction Technique
Alberto Maldonado	Inquiry Based Labs	Qualitative Analysis
Leslie Silvestriz	Inquiry Based Labs	Esterification
David Sanabria	Inquiry Based Labs	Like Dissolves Like
Diana Santiago	Video Clips	Laboratory Techniques
Joaudimir Castro	Inquiry Based Labs	Polymers
Cristina Díaz	Inquiry Based Labs	Ferrocenylenones
Wanda Cuadrado	Inquiry Based Labs	Ferrocenylenones
Elizabeth Valentín	Inquiry Based Labs	S _N 2 Reaction
Myrella Aponte	Inquiry Based Labs	Flavorings
Joel Cruz	Inquiry Based Labs	Flavorings
Nahir Vélez	Inquiry Based Labs	Esterification
Linette Pruna	Inquiry Based Labs	Assessment
Myrna Otaño	Inquiry Based Labs	Ferrocenylenones
Barbara Casañas	Inquiry Based Labs	Ferrocene
Mara Morales	Inquiry Based Labs	Ferrocene
Alejandra Cruz	Green Chemistry	Microwave Reduction
Atenaida Maldonado	Computer Modules	Ethics
Adriana Padilla	Computer Modules	Ethics/Green Chemistry
Solyomar Negretti	Computer Modules	Ethics
Wilnelly Martínez	Green Chemistry	Aqueous Organometallic

Javier Escudero	Green Chemistry	Reactions
Sonia de la Torre	Green Chemistry	Solid Phase Catalysis
Juan Carlos Aponte	Green Chemistry	Greener Oxidation Reactions
Rafael Ramos	Assessment	Estereoselective Reductions
José Cintrón	Inquiry Based Labs	Portfolio
Silvette Castro	Green Chemistry	Barbier Reaction
Joan Roque*	Assesment	Esterification Reactions
Ninoshka LaFontaine	Organic Chemistry	Mentoring Program
Adriana Rodríguez	Organic Chemistry	Ferrocene Derivatives
Viviana León	Organic Chemistry	Ferrocene Derivatives
Juan Corchado	Chemical Education	Ferrocene Derivatives
Eduardo Feliciano	Chemical Education	Computer Module
Gabriela Falcón	Chemical Education	Computer Module
Edgardo Martínez	Chemical Education	Computer Module
Fernando Correa	Organic Chemistry	Ferrocene Derivatives
Janice Soto	Organic Chemistry	Ferrocene Derivatives
Cristian Morales	Organic Chemistry	Ferrocene Derivatives
Emmanuel López	Green Chemistry	Solvent-Free Reductions
Josué Rivera	Organic Chemistry	Ferrocene Curcuminoids
Ingrid Lehman	Organic Chemistry	Disubstituted Ferrocene Derivatives
Israel Méndez	Chemical Education	Bridges Towards Sustainability
María Rodríguez	Chemical Education	Bridges Towards Sustainability
Jesús Dones	Organic Chemistry	Ferrocene Derivatives
Giovanni Rodríguez	Organic Chemistry	Ferrocene Polymers
Julio Cedeño	Organic Chemistry	Ferrocene Derivatives
Stephanie Ramos	Organic Chemistry	Ferrocene Derivatives
Adrian Burgos	Chemical Education	Greening Grignard Reactions
Edmarie Santiago	Organic Chemistry	Ferrocene Derivatives
Raúl Martínez	Organic Chemistry	Ferrocene Derivatives
Soraya Abdul	Organic Chemistry	Ferrocene Derivatives
Andrés Molina	Organic Chemistry	Ferrocene Derivatives
Reinaldo Colón	Organic Chemistry	Ferrocene Derivatives
Giovanny Pérez	Organic Chemistry	Ferrocene Derivatives
Naishka Caldero	Organic Chemistry	Ferrocene Derivatives
Xaimara Santiago	Organic Chemistry	Ferrocene Derivatives
Jesse Dávila	Organic Chemistry	Ferrocene Derivatives
Ambar Alsina	Organic Chemistry	Ferrocene Derivatives

*UPR-Humacao RISE Program

Member of Graduate Committee for:

Marilyn García
Elizabeth Valentín
Mariana Martin

J. Rivera's Group
J. Prieto's Group
J. Rivera's Group

Rocío Cardona
Barbara Casañas
Alejandra Cruz
Karinel Nieves
Edwin Vázquez
Carlos Nogueras

A. Guadalupe's Group
J. Colón's Group
J. Prieto's Group
A. Rodríguez's Group
Dr. Irving Vega
Dr. Irving Vega

Students Graduated

David Sanabria Ph. D. 2007
"Assesment of Organic Inquiry-Based Laboratory Experiences Targeting Different Learning Styles: Ethnographic Study"

Myrna Otaño MS 2014
"Syntheses and Characterization of Ferrocenyl Chalcones"

Johanna Fajardo MS 2014
"Syntheses and Characterization of New Ferrocene Polymers from Ferrocenyl Chalcones"

Courses Taught

2012 - 2013	Capstone Course: From Fire to Plasma: A Journey through the History of Chemistry
2011	Capstone Course: Green Chemistry
1994 - Present	Organic Chemistry Course for Majors
1987 - Present	Organic Chemistry Laboratory for Majors
1987 - 1994	Organic Chemistry Course for Non-Majors
1987 - 1994	Organic Chemistry Laboratory for Non-Majors
1992 - 1994	Organic Synthesis
1993	Team Teaching Capstone Course: The Impact of Chemistry in the Environment
1987 - 1988	General Chemistry, Lecture and Laboratory

Professional Societies

American Chemical Society
International Union of Pure and Applied Chemistry
American Association for the Advancement of Science

Committees and National Service

ACS

1989 - Present	Board Member, American Chemical Society Puerto Rico Local Section
	Local Section Secretary (1993)
	Chairperson (1995, 2003, 2011)
	Treasurer (1998)
	Alternate Councilor (1996 – 1998)
	Councilor (1998 – 2013)
1989 – 2000, 2003, 2005 - Present	National Chemistry Week (NCW) Coordinator – Puerto Rico Section
2008 – Present	Chemists Celebrate Earth Day (CCED) Coordinator – Puerto Rico Section
2009 – Present	Project Seed Coordinator
1989 – Present	Faculty Advisor of UPR-RP Student Chapter of the American Chemical Society. The Chapter has been recognized as an Outstanding Chapter in 1993, 1994, 1995, 1996, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014 and as Commendable in 1997.
1995, 1998, 1999, 2004	Peer Review Evaluator of the ACS Student Affiliates Chapters, Baltimore.
1999 – 2001	Member of the American Chemical Society Task Force in Undergraduate Education (Meeting Planning)
1999 – 2004	Member of the American Chemical Society Task Force for the National Chemistry Week
August 2000	Program Director for the Undergraduate Program of the 220 th ACS National Washington, DC

2001 – 2009	Member of the American Chemical Society, Society Committee on Chemical Education.
2002 – 2009	Member of the American Chemical Society Chemical Education Division (National Meetings Program Committee)
2004 – 2007	Member of the American Chemical Society, Committee on Community Activities. (Chair of the Award and Recognition Subcommittee)
2005	Coordinator for the Presidential Event “Festival de Química”. Spring Meeting, San Diego, March 2005.
2006 – 2011	Member of the American Chemical Society, Advisory Board for ChemMatters Magazine.
2007 – 2009	Chair of the American Chemical Society, Advisory Board for ChemMatters Magazine
2007 - 2009	Chair of the American Chemical Society Committee on Community Activities.
August 2007	Program Co-Chair for the Division of Chemical Education of the Fall 2007 ACS National Meeting in Boston
2008 – Present	Member of the American Chemical Society Chemical Education Division (Long Range Planning Committee).
2009	General Chair of South Eastern Regional Meeting – American Chemical Society National Meeting, Puerto Rico in Fall 2009
2009 – 2011	Chair of the American Chemical Society Theme Team for the International Year of Chemistry celebration.
2009 – 2011	Representative of the American Chemical Society at the IUPAC 2011 Organizing Committee
2009 – 2011	Chair of the Outreach Committee at the IUPAC 2011 Organizing Committee
2010 – 2012	Member of Committee on Committees – American Chemical Society
2010	Consultant, Committee on Community Activities
2011 – Present	Chair of the Long Range Planning Committee – Division of

Chemical Education

- 2013 Director at Large – Board of Directors, American Chemical Society
- 2015 Executive Committee for the ACS Scholars Program 20th Anniversary
- 2015 Coordinator for Webminar in Spanish
- Editorial Boards
- 2014 – Present Member of the Editorial Advisory Board, Revista Educación Química
- 2010 – Present Member of the Editorial Advisory Board, Journal of Chemical Education
- 2006 – 2011 Member of the American Chemical Society, Advisory Board for ChemMatters Magazine
- 2007 – 2009 Chair of the American Chemical Society, Advisory Board for ChemMatters Magazine

University of Puerto Rico System

- 2007 Member of Group II (Initiative on Access and Success) – National Association of System Heads (NASH)
- 2005 - Present Appointed by UPR President, Chair of the UPR Systemic Committee for Improvement of the UPR Chemistry Program

University of Puerto Rico – Río Piedras Campus

- 2015 Member of Graduate Studies and Research Council
- 2010 Member of the Task Force e-Learning Proposal (Title V)
- 1999 - 2003 Chair General Education Component Committee
- 1995 - 1996 Member of the Institutional Leadership Project (ACE/Kellog Project), Group II: Written and Oral Communication Skills including Telecommunications

College of Natural Sciences – University of Puerto Rico – Río Piedras Campus

- 2015 Chair of Safety Committee
- 2007 Member of the Academic Affairs Committee

- 2001 – 2008 Chair of the College of Natural Sciences' Committee for the Revision of the BS at the University of Puerto Rico, Río Piedras
- 1999 Member of the Strategic Plan Committee, Curriculum Component, Community Service and Continuous Education – College of Natural Sciences
- 1997 – 1998 Member of the College of Natural Sciences' Committee for evaluation of the Scientific Illustration Shop
- 1996 Member of the Faculty of Natural Sciences' Committee for Telecommunications and Informatic

Chemistry Department – University of Puerto Rico – Río Piedras Campus

- 2003 – 2008 Chair, Chemistry Department Committee of Academic Affairs
- 2005 – 2014 Department Strategic Planning Committee
- 1998 Member of the Strategic Plan Committee (Curriculum Component) – Department of Chemistry
- 1996 – 1998 Chair, Chemistry Department Committee of Academic Affairs
- 1995 – 1996 Member of the Department's Committee for the Reconceptualization of the BS in Chemistry, University of Puerto Rico, Río Piedras
- 1989 – 1998 Chair, Chemistry Department Committee for Safety

Community and Professional Associations

- 2004 – Present Peer Reviewer: Journal of Chemical Educator and Journal of Chemical Education
- 1989 – Present Chemistry Demonstrations for ACS Outreach Programs
- 1996 – 1998 Chair of Committee for Professional and Scientific Activities, Puerto Rico Chemist's Association
- 1990 – 1991 Member of Student Award Committee Puerto Rico Chemist's Association
- 1990 Member of Hospitality Committee, National Convention, NSTA