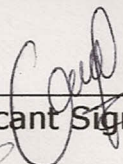


2012 Student Leadership Awards Application Form

Please complete all fields and e-mail this form to undergrad@acs.org (include "2012 Leadership Awards" in the subject line) or FAX to 202-872-8068. All paid student members who have completed at least one year of undergraduate studies in the chemical sciences and have held elective office in an active student chapter are eligible to apply. Preference will be given to sophomores and juniors.

All applications must be received by October 26, 2011

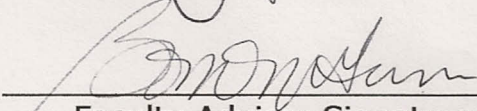
1. Full Name:	Jacqueline Gamboa Varela
2. Email Address:	jpgamboa3@miners.utep.edu
3. SSN:	641-17-7757
4. Mailing Address:	200 Wallington Dr. Apt 25 El Paso, TX 79902
5. Telephone:	(915) 783-7353
6. Fax:	N/A
7. Institution name:	The University of Texas at El Paso
8. Faculty Advisor /email	Bonnie M. Gunn bmgunn@utep.edu James Becvar jbecvar@utep.edu
9. ACS Student Member Number:	30159209
10. Expected Graduation Date:	May 2012



Applicant Signature

10/25/11

Date



Faculty Advisor Signature

10/26/11

Date

Jacqueline Gamboa Varela

200 Wallington Dr. Apt 25 El Paso, TX
jgamboa3@miners.utep.edu (915) 783-7353

October 25, 2011

Student Leadership Award Committee,

Please select me as one of the recipients for the Student Leadership Award for the 2012 ACS Leadership Institute to be held January 20-22, 2012, in Fort Worth, TX. The leadership positions, chapter president, I currently hold in two student organizations at the University of Texas at El Paso (UTEP) have allowed me to gain organizational and analytical skills as well as cultural diversity as part of the challenge in managing the organizations which make me a good candidate for the award.

In the past year I have been able to improve my leadership skills by serving as the president of the National Society of Collegiate Scholars (NSCS) UTEP chapter as well as at the American Chemical Society (ACS) student chapter. When the 2010-2011 year began, I had the objective of improving the NSCS chapter's STAR status from bronze to gold. I have developed great organizational and managing skills in order to coordinate with officers to get the activities done. Since last year the chapter began a strong tutoring program at the Child Crisis Center of El Paso and did several community service activities. I have gained the capability of delegating duties to the officers and coordinating them to establish contact with the members and staff from other local organizations. At the end of the academic year the chapter was awarded the Gold STAR Status and also won the "Ace for PACE" award for the tutoring program; only one chapter was awarded from the 240 chapters that currently exist in the nation. This academic year I am having the opportunity to serve as the chapter president again and several community service activities as well as the tutoring program are still running. I have increased the active membership from 30 of last year to 50-60 this year and it is my goal to have at least 100 active members at the end of the academic year. In addition, this year I am also serving as a member of the National Leadership Council, a 10 member board which serves as the main communication between the members with the national office at Washington, D.C. headquarters. This position has allowed me to improve in writing, communication, and time management skills since I am required to write monthly articles and complete them by a certain deadline. I am also required to review scholarship applications and help the national office to plan events set for every chapter.

At the ACS-student chapter I have been able to improve the settings of the organization. In the Fall 2010 semester I was elected as the VP for Internal Affairs and on Spring 2011 I was promoted to the chapter president position, which I still currently hold. One of the major improvements was active membership, which has increased since I started serving as president for the organization. In addition, communication with other universities has been established. New Mexico State University (NMSU) is located 40 miles away from UTEP and they did not have an ACS chapter until I established contact with professors at the university and impulse the restart of a chapter at the university. I have been the main contact between the universities and provided assistance to inquiries and concerns for the new chapter development.

Since then, collaboration with the professors at NMSU has been going on and they helped our chapter with items for National Chemistry Week this past week. I have been able to acquire networking and organizational skills with the chapter. Because of the activities organized by me and the officers through communication with me, we received honorable mention for the activities done this past year. It is my goal to get outstanding recognition for this year as well as increase membership. Furthermore, I have increased awareness of the chemistry circus run by our chapter in which collaborations with other organizations both in and outside of campus have led the chapter to gain more attention within the community. In addition, I had the opportunity to be a tutor for first-year chemistry courses last year. Being there I learned methods that can be used to approach scholastic issues as well as understanding students when an undergraduate serves as the leader.

I believe that having a sense of cultural diversity is important in a leader. Being in a university which is cultural diverse has made a great impact in my development of leadership skills. I have been able to understand the beliefs and objectives that each culture has and how they need to be address. In some of the activities ACS and NSCS chapters have held in the past have involved a specific cultural, age, or subject group. Thus, the chapter must offer different options in which the members can choose from. It is exciting for me to be able to exchange ideas with people from different backgrounds since they contribute to a better functioning of a team.

I believe attending the leadership institute this January will allow me to gain more leadership skills in order for me to strengthen the ACS chapter. One of the skills I wish to acquire is networking and communication with professors at the institution as well as staff at the national office. For the well functioning of the chapter it is important to have a wide variety of opinions and ideas that do not come directly from the students but for professionals with more experience and understanding of the society. Other skills I want to acquire are to learn to be persuasive and coach. Since it is my last year at the university I want to be able to leave a strong basis for the chapter and to the people who are staying in my place hence they can have a smooth transition when the new year begins. I also wish to acquire marketing skills so that the chapter can receive more attention in school and members stay for their entire collegiate careers and not only for the year they joined, since it has been a problem at the chapter.

I am confident that I am a strong candidate to receive the award due to my leadership experience, one of those being with ACS, in addition to having skills necessary for being a strong leader. The meeting will allow me to further contribute to the success of the chapter and increase membership. Thank you for your time and consideration.

Sincerely,

Jacqueline Gamboa Varela

Jacqueline Gamboa Varela

Resume

EDUCATION

The University of Texas at El Paso (UTEP)

Bachelor of Science in Chemistry

Anticipated Graduation date: May 2012

Overall GPA: 3.66/4.0

Relevant Courses: Organic Chemistry I & II; Laboratory for Organic Chemistry I & II; Periodic Table; Laboratory for Periodic Table; Physical Chemistry I & II; Laboratory for Physical Chemistry I & II; Analytical Chemistry; Instrumental Chemistry.

HONORS AND ACTIVITIES

- Dean's List- Fall 2008, Spring 2009, Fall 2009, Fall 2010, Spring 2011.
- National Society of Collegiate Scholars, Chapter President Aug. 2010-present.
 - National Leadership Council Member March 2011-present.
 - Vice President of Planning for College Success Aug. 2009-May 2010
- American Chemical Society-Student Members, Chapter President Jan. 2011-present.
 - Vice President for Internal Affairs Aug. 2010-Dec. 2010
- COURI Research Award Recipient Fall 2010, Fall 2011-Spring 2012.
- Chihuahua Government-UTEP Scholarship recipient Aug. 2008-May 2011.
- American Chemical Society Member.
- Society for Advancing Hispanic/Chicanos and Native Americans in Science member.

EXPERIENCE

Research Laboratory at UTEP with Dr. Jose E. Nunez

June 10- Present

Student Research Assistant

- Synthesize pyridine-based ligands for potential magnetic liquid crystals and self-assembled monolayers.
- Purification and characterization techniques use are Infrared Spectroscopy, Mass Spectrometry, Proton and Carbon Nuclear Magnetic Resonance, and Differential Scanning Calorimetry.
- Presented poster "Synthesis of Pyridine-Based Ligands as Potential Magnetic Liquid Crystals" at the 1st COURI Symposium at UTEP, April 15, 2011.

Summer Research Internship at MIT with Dr. Timothy Swager.

June 11-August 11

Summer Research Intern

- Synthesized trypticene based molecules
- Syntheses involved a number of synthetic manipulations including Diels-Alder cycloadditions, 1,2-carbonyl additions, reductive aromatization reactions and other important methodologies.
- Presented poster "Synthesis of Pi-Extended Trypticene Molecules for Singlet Fission" at the 26th Annual MIT Summer Research Program Poster Session at MIT, August 4, 2011.

- Will be presenting poster at *Annual Biomedical Research Conference for Minority Students* in St. Louis, MO, November 9-12, 2011.

Peer Leading Team Learning Program

January 10-December 10

Organic Chemistry Peer Leader

- Tutored students who are currently enrolled in the class. Helped them have a better understanding of the material through solving-session workshops. Including diverse activities in the sessions such as board games and team collaboration.
- Presented poster “Sizzling Organics” at the Joint 66th Southwest and 62nd Southeastern Regional Meetings in New Orleans, Louisiana, November 30 to December 04, 2010

Research Laboratory at UTEP with Dr. Michael P. Eastman

September 08- June 09

Student Research Assistant

- Analyzed 40 sensors systems prepared with polyvinylidene fluoride polymers mounted in bars of different materials such as steel, copper, aluminum, and polyethylene in order to analyze the Young Modulus.
- Presented the research project about polyvinylidene fluoride sensors at *Supporting a Better Education in Math and Science (SABE MAS)* meeting to 15 elementary and middle school science teachers in order to introduce conduct/apply the experiments in their classes.
- Presented poster “PVDF Sensors” at the 1st Symposium for UTEP-Chihuahua Scholars in Ciudad Juarez, Chihuahua, Mexico, May 20 to May 21, 2010.

VOLUNTEER EXPERIENCE

- 15 Chemistry CirCus appearance at local elementary/middle/high schools. **March 2010-Present**

The CirCus consists on presenting different basic chemistry experiments to children/teenagers at schools in El Paso community to create awareness of chemistry in daily lives and the importance of college education.

- Ronald McDonald Family Room at Sierra Providence Hospital **August 2010-May 2011**

Assist 50 family members of children currently in the hospital. Provide a comfortable-safe atmosphere for the parents and relatives that attend the family room as to have a getaway from the hospital concerns by suiting the family room to their needs and assisting in the usage of it. As well as look over the family room cleaning and greeting setting.

SKILLS

- Familiar with Origin data analyzing system from Origin Lab Company.
- Bilingual in English and Spanish.

Richard Gutierrez
Department of Political Science
Benedict Hall 201
University of Texas at El Paso
500 West University
El Paso, TX 79968

To whom it may concern:

I am writing this letter of recommendation on behalf of Jacqueline Gamboa Varela who is applying for admission to the American Chemical Society Leadership Institute. I have had the pleasure of knowing and working with Ms. Gamboa the past year and a half. I am the faculty advisor for the UTEP chapter of the National Society of Collegiate Scholars, an honorary organization for first and second year university students. Ms. Gamboa served as president last year and was reelected by her peers for a second term for this academic year.

I have been more than impressed with Ms. Gamboa's leadership skills. Thanks to her efforts NSCS has become the most active honor organization on campus. Our chapter succeeded in achieving gold status that only a few of the more than 1000 chapters nationwide achieve. It was mostly because of her hard work and skills that this achievement was possible. Jacqueline contacted many local non-profits and offered them the services of the members to tutor, mentor and visit with elementary, middle school and high school students as well as students with special needs. She did the leg work necessary to get new projects off the ground and then encouraged the participation of the other officers and members.

Jacqueline also demonstrated a true leader's skills by working closely with the other officers, listening to their comments and heeding their advice. I believe she made them all feel as if they were part of the team and that working together was for the ultimate benefit of the organization. Members also appreciated her sense of humor, her welcoming attitude and her ability to work with different groups of university and community persons. She was also more than willing to work hard at the different events where she often was the cook, server and clean up person. That kind of leadership is all too rare as many student leaders just want to be seen but are not willing to do the hard, and sometimes dirty work to make activities worthwhile for all the participants. She is articulate, organized and self-motivated.

I have every confidence in Jacqueline's leadership skills and participation in this Institute could only serve to enhance the skills she has already so aptly demonstrated and the Institute would profit from her participation as she has much to offer. As a Latina woman she is a true role model for other women and an inspiration to younger students who are hoping and planning to

one day go to college. Thank you for considering this letter and Jacqueline's application. If I may of further assistance please do not hesitate to call on me.

Sincerely,

Richard Gutierrez