

**National Chemical Technician Award Candidate Form**

Candidate information

**Name:** Evangeline Rodriguez **Title:** Technician, Fluid Catalytic Cracking

**Company name:** Phillips 66  
**Complete work address:** Phillips 66 Research Center  
366 PL  
Highway 60 & 123  
Bartlesville, OK 74003

**Work phone:** 918-977-7372 **Email:** Eva.Rodriguez@p66.com

Candidate's immediate supervisor's information

**Supervisor's name:** Matthew Truitt **Supervisor's title:** Team Lead, Fluid Catalytic Cracking

**Work Phone:** 918-977-7993 **Email:** Matt.Truitt@p66.com

Nominator's information

**Nominator's name:** Ted Weintrob **Nominator's title:** Associate Scientist, Advanced Hydrocarbon Fuels

**Work Phone:** 918-977-4411 **Email:** Ted.Weintrob@p66.com

**Candidate Eligibility**

All three boxes in the Eligible column must be checked for candidate to be eligible.

- |  | <b>Eligible</b>                         | <b>Ineligible</b>            |
|--|---|------------------------------|
| 1. Is the candidate a chemistry-based laboratory technician, process technician, operator, analyst, or other applied chemical technology professional? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No  |
| 2. Has the candidate been employed for at least five years as an applied chemical technology professional?   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No  |
| 3. Is the candidate currently a member of the Committee on Technician Affairs Executive Board and/or Advocacy & Public Relations Subcommittee?         | <input checked="" type="checkbox"/> No  | <input type="checkbox"/> Yes |

**Candidate's contribution in six areas of award criteria**

Make space as necessary under each category. Total packet, including letter(s) of recommendation, must not exceed 6 pages, minimum 10-point font. Do not include proprietary, confidential, or private information.

**Technical Achievements (worth 60%)**

Eva has worked on several projects within the Advanced Hydrocarbon Fuels group. Her main responsibilities include catalyst synthesis, equipment maintenance, reactor modification, running reactions, and analysis of products via gas chromatography. Her performance of these responsibilities is invariably outstanding. Despite receiving new and sometimes disparate challenges, she is quick to learn new skills and respond to the demands of the task at hand. Her knack for troubleshooting ensures smooth operation of all reactors and equipment in the lab, and her attention to detail lead to consistently high quality, reproducible data. Her results have led to ten research reports, one of which she authored. These results have contributed to the group's overall goal of developing solutions to the future technological and regulatory challenges of fuel production.

**Other (Considered together to make up the remaining 40%)**

**Leadership/Mentoring (15%)**

Eva has given significant training to two new-hire professionals in the group and two technicians. Furthermore, she is a resource for the entire organization on a less formal basis. Through her

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work on the Voluntary Protection Program (VPP) committee, she co-chaired a subcommittee to improve safety signage at the Phillips66 Research Center. She also serves on the RiskBUSTERS behavior-based safety steering committee with responsibility for safety data entry and analysis.

**Number of communications/publications (5%) Please do not include titles.**

Ten research reports (one authored), one trip report.

**External publications, presentations, patents**

**Internal presentations, publications Include SOPs, presentation to teams, etc.**

Evangeline has contributed to ten research reports. She has reviewed eight standard operating procedures, including procedures for fixed bed and stirred tank reactors, furnaces, and gas and liquid chromatographs. She has also submitted a large number of reports analyzing safety observations as part of the RiskBusters committee. She was responsible for all aspects of introducing an oxidative stability tests for diesel fuels in our laboratories. This included standard operating procedures, white sheets and initial test validation experiments.

**Contribution to quality, safety, and other initiatives (5%)**

Eva exemplifies the highest standard of safety, in her own experiments and in her commitments on the Voluntary Protection Program (VPP) and RiskBUSTERS committees. She has been involved in numerous VPP safety projects, including a safety fair for the facility and a trip to the VPP Regional VI conference held in San Antonio, Texas, to exchange best safety practices with other industries and apply them to work at the company. On RiskBUSTERS, she works on the data and steering committees. For the data committee, she attended a class in Rincon, software which assists data collection and analysis of safety programs. She has leveraged this knowledge to assist the data team in analyzing procedure observation data.

**Awards (5%)**

**Professional and community activities (ACS, AIChE, outreach, etc.) (10%)**

Eva has participated in Energy Days, an outreach program designed to expose 4<sup>th</sup> and 5<sup>th</sup> graders to the science behind the energy industry.

Eva has gone above and beyond as a Technician to promote safety at the workplace. One example of this is her service to RiskBUSTERS. As the Chair for RiskBUSTERS, I have had the pleasure of working with Eva since her unanimous election to the steering committee. She assisted with the data entry on our data subcommittee, which is no small task given the complexity of the Rincon software program used to track all the data. When an opening on the steering committee came about, Eva was asked to join. She accepted without hesitation. As a new member to the committee, Eva had the opportunity to attend the Behavioral Science Technology National conference in Nashville, TN this year. She took an advance class in Rincon, a software overview that helped her understanding of the data collection process. This has already proved beneficial in that she has been able to assist with providing metrics pulled from Rincon, to assist the safety department in their Key Performance Index reports. She also was able to gain a better understanding of Behavioral Based Safety and bring back some great ideas for our process here at the Phillips Research Center. Eva was also instrumental in working with our coaching team as a data team member in establishing internal processes that help the committee to improve the quality of our observations. During her time with RiskBUSTERS, Eva has been a valuable asset and has been a pleasure to work with. I enthusiastically recommend her for Technician of the year.

Bobby Greenway-RiskBUSTER Facilitator/Chair

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To the Technician of the Year Awards Committee,

I write in wholehearted support of the nomination of Evangeline Rodriguez for Technician of the Year in the Northern Oklahoma Section of the American Chemical Society. I have had the privilege of working with Eva since she joined Phillips 66 (ConocoPhillips at the time) in January of 2010 and have been her supervisor since late 2010. Others letters of support will attest to her commitment to both the Voluntary Protection Program and behavior-based safety programs at the Phillips 66 Research Center. I would like to use this opportunity to highlight Eva's scientific capabilities both before joining Phillips 66 and in the Advanced Hydrocarbon Fuels laboratories.

Prior to joining Phillips 66, Eva was responsible for post mortem analysis of catalytic converters. This destructive testing of vehicle after-treatment systems following lifetime testing was essential to her employer to determine how catalytic converters aged during use. This position exposed her to a number of analytical techniques including scanning electron microscopy, surface area analysis, temperature programmed desorption/reaction, and energy dispersive spectroscopy. These techniques built upon her previous experience as a biologist where she was responsible for microbial testing at a meat processing center. Her skill at advanced techniques was evident when she joined Phillips 66. Her prior experience translated well to a petroleum laboratory where she set up and now utilizes oxidative stability measurement equipment, liquid chromatography, mass spectrometry and gas chromatography on a near daily basis.

In 2012, there was a project in our group that used partial oxidation to convert hydrocarbons. Partial oxidations are not reactions that we typically perform within this organization and they pose a series of chemical and physical safety concerns that we do not commonly need to address. In addition, the system we were looking at made reconciling mass balances very difficult. This project was executed safely, within budget and produced high quality results. In situations that combine unique safety concerns, careful execution, complex analytical techniques and meticulous attention to detail, Eva is my first choice.

Thank you for considering her nomination for Technician of the Year. I can think of no one more deserving.

Bradley Taylor, PhD

Director, Advanced Hydrocarbon Fuels

Phillips 66

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I would like to enthusiastically support the nomination of Eva Rodriguez as the 2013 Northern Oklahoma Technician of the Year. I worked directly with Eva from when she joined the company in January 2010 until June 2012. After joining our group, Eva's outstanding talent and abilities quickly became evident, and she quickly became a vital member of the Advanced Hydrocarbon Fuels team. In the time we worked together, shifting manpower in the group created vacancies and gaps to be filled, however Eva seamlessly took on the additional responsibilities and duties and kept AHF's labs running smoothly in spite of significant losses of manpower. Eva has gone above and beyond her standard duties on many instances and has even conducted research projects on her own toward the group's overall research objectives. She is a strong contributor, and well deserving of this recognition.

After joining the group in January 2010, Eva very quickly learned the operations of each of the reactor systems. Within her first month, Eva was operating all of the standard equipment in the labs and performing routine analyses necessary for experiments. Pulling from her past experiences at previous jobs, Eva took it upon herself to improve the standard operating procedures for a calcination furnace in our group for which the manuals were lost. She had encountered a similar unit at a previous job, and knew that the capabilities would be significantly enhanced if we could access the advanced features. Eva found a manual for the unit online, updated the SOPs, and taught other group members how to use some of these advanced features that had previously been unknown. This allowed for more effective use of the equipment and better control over sample preparation. On a day-to-day basis, Eva is a researcher who consistently produces high quality, timely results. She is not intimidated by lengthy run sheets, but carries out extensive designed experiments over several weeks completely independently.

In the spring of 2010, a new piece of fuel's testing equipment was purchased by AHF. Before the equipment arrived, I gave Eva a copy of the standard testing method so that she could familiarize herself with the testing protocol. When the unit arrived, I was busy and did not have time to set up the unit. I tasked Eva with unpacking the unit and starting to prepare the location where the unit would go, only needing it operational within a couple of weeks. By the end of the day and on top of her normal duties, Eva had installed the unit and it was ready for use. Additionally, only using the standard testing method provided, Eva began running test samples to verify the functionality of the unit within a day. Today, Eva is still the primary operator of the unit, and has performed standard testing using this instrument for other groups beyond AHF. Eva is a self-motivated, diligent worker who is constantly seeking opportunities for advancing her capabilities. Later in 2010, Eva indicated that she would like to take on additional technical responsibility and attempt some side-projects on her own. Eva has tackled detailed research projects and she has consistently developed and executed experimental plans, analyzed results, and prepared the data into presentable formats. Eva has even authored a technical memorandum on some of her work.

Eva's dedication to safety is evident in the lab. Eva always keeps abreast of changes to equipment and initiates updates when alterations need to be made to existing SOPs and other safety documentation. As discussed previously, Eva has expanded and improved several of the SOPs in the AHF labs and has drafted SOPs for several pieces of equipment in the labs acquired after her joining. She is always willing to train AHF new hires, professional and technician alike, and personnel from other groups in the proper operation of AHF's equipment, ensuring trainees learn the associated hazards and control methods of each unit. Eva is vocal when she perceives a safety concern and many of her suggestions have been implemented as standard practices in the labs. She has also communicated methods AHF uses to other groups in her area as recommended best practices. Eva commitment to safety is evident by her serving on both the RiskBUSTERS' and the VPP steering committees. Eva has also participated in Energy Days, and has served on its planning committee. Energy Days is an outreach program where local 4<sup>th</sup> and 5<sup>th</sup> grade school kids visit ConocoPhillips and are exposed to the petroleum industry and the science behind America's energy.

Eva Rodriguez is an outstanding individual and truly deserving of recognition as the 2013 Northern Oklahoma Technician of the Year.

Matthew J. Truitt  
FCC Experimental Team Lead  
Refining Research

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Eva has demonstrated outstanding performance in all aspects of her work at Phillips66. I have worked directly with Eva for one year. In that time, she has always exemplified the company values of safety, honor and commitment.

Eva's commitment to safety is apparent in all of her work. She has worked on projects with significant hazards, including toxic gases, extremely high pressures and temperatures, and explosion risks. Nevertheless, she has risen to the challenge by employing the sometimes complex safety measures necessary to minimize risks. She has also served on two safety-related committees at Phillips66: the Voluntary Protection Program (VPP) and RiskBusters. VPP is a non-mandatory OSHA program which promotes effective worksite-based safety and health, and RiskBusters conducts training, observations and feedback to provide continuous improvement in all safety practices.

Eva is known among her coworkers as honest and trustworthy. She can always be counted on to follow through on her promises, and treats her colleagues with respect and dignity. Her devotion to the integrity of the data she generates is obvious; she has on several occasions suggested improvements to procedures which would require significantly more work on her part.

Finally, Eva demonstrates exceptional commitment to excellence in her work. She executes complicated procedures flawlessly, and often goes above and beyond expectations to accomplish her tasks. Her practical, hands-on knowledge of reactor operations has been an enormous asset to both running successful and efficient experiments, as well as training less experienced technicians and professionals. Her detail-oriented approach ensures that the data she generates is always of high quality. The results she generates have been key components in the Advanced Hydrocarbon Fuels research program.

Without reservation or qualification, I endorse Eva Rodriguez for the Technician of the Year Award.

Ted Weintrob

Associate Scientist, Advanced Hydrocarbon Fuels

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