



National Chemical Technician Award Candidate Form

Thank you for your participation in the National Chemical Technician Award program. For each nominee, a completed nomination packet is required. The packet must include, at minimum, the following:

- The completed nomination form
- At least one letter of recommendation from someone familiar with the candidate's work

Other materials can be included, if desired; however, the completed packet, included letter(s) of recommendation and supporting materials, must not exceed six single-sided, single-spaced pages. Type must be at least 10-point font.

[Note: this cover page is not considered part of the nomination packet and should be deleted or recycled prior to submitting the packet.]

The form should expand as needed to include all information you wish to include in the form. All material included in the nomination packet should be cleared for release outside your organization. ***Packets exceeding six pages in length or containing proprietary, confidential, or private information will not be accepted.***

Nomination packets must be received by September 30, 2011. If packets are submitted by email or fax, hardcopies should also be submitted by mail within 7 days of the September 30th deadline, including the original signed letter(s) of recommendation.

Submit nomination packets to

Mark O'Brien
Staff Liaison, ACS Committee on Technician Affairs (CTA)
Office of Technician Education and Resources
American Chemical Society
1155 Sixteenth St. NW
Washington, DC 20036
1-800-227-5558, ext. 8212 (office) | [202-872-4353](tel:202-872-4353) (fax)
cta@acs.org

Contact Mark O'Brien (1-800-227-5558, ext. 8212, cta@acs.org) with any questions or concerns.

National Chemical Technician Award Candidate Form

Candidate information

Name: Alnikkioshea Woodard **Title:** Senior Technologist M&E
Company name: Dow Chemical USA
Complete work address: 2301 Brazosport Blvd Freeport Tx. 77541
Work phone: 979-238-4043 **Email:** AGlass@dow.com

Candidate's immediate supervisor's information

Supervisor's name: Scott White **Supervisor's title:** Technology Director
Work Phone: 225-353-6041 **Email:** wswhite@dow.com

Nominator's information

Nominator's name: Bob Aikman **Nominator's title:** Research Leader
Work Phone: 979-238-3320 **Email:** reaikman@dow.com

Candidate Eligibility

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

	Eligible	Ineligible
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%)

In 2008 Nikki generated results critical to a project to implement an improved plant technology with energy savings of \$6MM/yr; 10 year NPV of \$23MM and CO2 emissions reduction of 50000 tons/yr.

From 2003 to 2006 she supported her team's effort to improve plant efficiency in Freeport which resulted in a 3 year savings of \$ 5.06 MM.

As of 2011 2nd qtr. an optimization project for plant energy savings contributed saving of \$148 M in EBIT.

Nikki generated results for a project at the Stade site initiated in 2003 which has generated \$120M in EBIT and \$16M in capital savings.

In 2006 Nikki's team identified incorrect materials of construction as the cause for premature failure of a production process. A superior material of construction was identified and as a result, the component life was projected to increase from 6 years to over 30 years.

Nikki's recent accomplishments include the following:

In 2010 she was certified as a Six Sigma Green Belt Project Leader by leading a project which improved plant reliability from 51% to 81%. In addition, she implemented a tracking system to monitor the raw material quality to the Freeport site. She monitors over 50 key indicators of raw material quality on 9 different streams and reports out of range results to the site quality team for corrective action.

When the feed supply developed quality issues, a Freeport pilot plant was affected greatly, resulting in a reliability of only 51%. This project focused on improving reliability by making instrument, piping, filter and operating discipline changes, thereby improving reliability to 90%.

National Chemical Technician Award Candidate Form

Lean techniques were used to eliminate waste and implement visual controls (color coding filters). The project was made sustainable by stocking different spare filters and creating historian log files to track filter differential pressure, tank level, and the differential pressure across the purification columns.

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

Leadership/Mentoring (1-15%)

Nikki takes personal responsibility for the reliable operation and accuracy of all data from the lab testing operations. She validates the accuracy of the individual measurements used to calculate key indicators of performance. She initiates the Management of Change work process and insures full compliance. She utilizes the Event and Action Tool to track progress on action item completion. She demonstrates by personal example the highest standards of integrity in the reporting of results. She is pro-active in preventative maintenance and continuously searching for ways to upgrade the capabilities of the lab. She considers not only her own safety but also the safety of her co-workers each day.

Mentorship

As part of her Six Sigma Certification project Nikki mentored another employee in the Six Sigma methodology. She insures that proper training is completed for all employees in her area.

Number of communications/publications (1-5%) Please do not include titles.

Co-Author on 2 internal technology improvement reports

External publications, presentations, patents (1-5%)

Internal presentations, publications (1-5%) Include SOPs, presentation to teams, etc.

Contribution to quality, safety, and other initiatives (1-5%)

Nikki insures that each month 15 safety inspections on the Master Task List for her area are completed.

In 2006 Nikki completed a Reactive Chemicals Laboratory Hazard Analysis for her work area. Then she prepared the documentation needed for a consolidated EH&S audit of her lab. Since that time she has converted more than 100 Standard operating procedures(SOPs) in her lab to the format designated by Dow's Operating Discipline Management System (ODMS). In addition she has linked all SOPs to the electronic data management system (WebEDMS). She is responsible for periodic review of the SOPs. She has converted all hardcopies of lab MSDS to an electronic database. (> 200). She was awarded special recognition for her personal intervention to prevent an unsafe action by a co-worker and she is leading the effort to prepare for a second consolidated EH&S audit of her lab in 1st quarter 2012. In 2010, Nikki initiated a comprehensive review of the automated shutdown process for the laboratory test cells. Worst case scenarios were identified and she modified the control system code to insure that safe shutdown occurred. In 2011 she is updating lab procedures and policies to insure compliance with a EH&S consolidated audit scheduled for March 2012.

Awards (1-5%)

10 Recognition Awards Since 2005

- 1.Collaborating for Superior Results-2011
- 2.Sustainability- Incident Prevention-2010(Intervention for contractor safety)
- 3.Sustainability- Living Our Values-2010(
- 4.People-Teamwork-2009
- 5.People-Teamwork -2008
- 6.Financial Discipline- Cost Management-2007
- 7.People-Teamwork-2006
- 8.Sustainability- Incident Prevention-2006
- 9.Six Sigma Certification GB-2005
10. Improve membrane Cell performance-2005 (Technology Center Award)

National Chemical Technician Award Candidate Form

Professional and community activities (ACS, AIChE, outreach, etc.) (1-10%)

1. Raised \$600 for March for Babies -2009
2. Supported Houston Arthritis Walk -2010
3. Supported AIDS Walk Houston- 2011
4. Member of ACS and NOBCCChE
5. Supported local community during holidays