**KENNETH W. APPELL**

60836 State Route 124

Long Bottom, Ohio 45743

Home: (740) 949-2652

Mobile: (740) 538-4729

**EXPERIENCE:**

|  |  |  |  |
| --- | --- | --- | --- |
| 03/12 - Present | | Senior Process Engineer  Solvay Specialty Polymers  Marietta Plant / Marietta, Ohio   1. On-Going: Radel Batch Cycle Time Reduction Projects have reduced batch cycle time from 15 hrs to 8hrs. Once all equipment is installed, cycle times will be less than 7 hrs. 2. 2017-2018 Lead Process Engineer for the new Molten Sulfone Monomer Storage and Feed System. This project involved steam jacketed piping, new pumps and exchangers, with new and revised control logic. 3. 2015-2016 Lead Process Engineer for Borger Texas Ryton Plant’s Slurry System and Salt Flash Concentrator Projects. This involved new pumps, new piping and new control logic which resulted in those unit operations meeting or exceeding nameplate. 4. 2012-2014 Lead Process Engineer for Radel Post Expansion Stabilization Project that increased Line 2 production rate by 40%; a) sized new column reboiler to improve heat transfer and reduce fouling, b) completely revamped a salt slurry system with new pumps, piping and control system and c) troubleshot and sized a new static mixer heat exchanger for a flash operation in devolatilization. 5. 2012-2013 Led Radel Solvent Color Improvement that reduced solvent color by greater than 50% and increased the Ppk from less than 1 to greater than 2. | |
| 01/09 – 03/12 | | * 2017 Solvay Specialty Polymers Marietta Site Significant Contribution Winner for Radel Batch Reactor Enhanced Termination and Ventless Transfer Project. * 2015 Solvay North America’s highest rated process engineer.   Senior Process Engineer  KRATON Polymers, Inc.  Belpre Plant / Belpre, Ohio  (The world’s largest producer of block co-polymers)     1. Member of the Global Manufacturing Team representing the USBC production units from the Belpre site. 2. Led cost savings projects that saved over $1MM each in 2011 in terms of hydrogen usage, anti-oxidant consumption and production losses caused by inadequate monomer flow. 3. Lead process engineer and wet-end start-up manager for the K-1 Isoprene Rubber (IR) Project. This was a $30MM capital project that converted K-1 from an USBC plant into an IR and USBC swing plant.    * 2011 Special Recognition Award for being the lead wet-end process engineer for the K-1 Isoprene Rubber Project and for being the IR start-up manager and process lead.  * 2010 Special Recognition Award for providing process support to the D1340 Test Run in Paulina, Brazil. * 2009 Special Recognition Award for being the lead wet-end process engineer for the successful K-1 Isoprene Rubber Test Run. | |
|  |  |  | |
| 08/02 – 01/09 |  | Production Engineer  KRATON Polymers, Inc.  Belpre Plant / Belpre, Ohio  Responsibilities for K-1 and K-3 production units: capacity plan, product loss tabulation and resolution plans, and lead in resolving product quality issues/customer complaints.  Increased production in K-1 from 95 MMtons/yr to 145 MMtons/yr leading the following process changes:   1. Increased solvent column throughput. 2. Stabilized extruder feed rate by installing new mixers elements with a new baffle design in Coagulation. Also automated the surfactant injection system and improved the mixing for improved crumb size consistency and to minimize extruder slippage. 3. Doubled extruder horsepower and installed amperage control on the dewatering extruders. Also modified the extruder screw tip and die design for increased throughput and increased dewatering.  * 2006 Special Recognition Award for leading a high vinyl test run in K-1. This required polymerization kinetics changes, procedure modifications and round the clock operational support. New product grade represents +25% of the K-1 product line. * 2006 Environmental Excellence Award for identifying a new chromium based catalyst for K-1’s fluidized bed catalytic oxidizer. This change resulted in increased VOC destruction efficiency, 55% reduction in attrition rate and lower operating costs. * 2005 Environmental Excellence Award for reducing solvent losses by implementing nitrogen stripping in K-1’s Coagulation Section. | |
| 05/99 – 08/02 |  | Senior Process Engineer  ASHTA Chemicals, Inc.  Ashtabula, Ohio  (A mercury cell chlor-alkali plant that produces 130 tpd of liquid chlorine and 230 tpd of potassium based caustics and derivatives)  President’s Award for Excellence for 2001  Process engineer for liquid and anhydrous potassium carbonate production and the chloropicrin plant. Increased the anhydrous carbonate fluidized bed reactor production rate from 50 tpd to 90 tpd by determining the key operating parameters through instrumentation improvements and DOE’s. Also improved the chloropicrin plant’s reliability and product quality that led to a joint venture with Dow Chemical in installing a $1.5MM in-line railcar blending facility. First hand experience with ISO9002, SPC, PSM, PSSR’s, HAZOPs, MOCs and HAZMAT training.   * Employee of the Month: December 2000. | |
|  |  | |  |
| 02/96 – 05/99 |  | | Shift Supervisor/Area Engineer  ASHTA Chemicals, Inc.  Ashtabula, Ohio  Shift supervisor for a six-man production crew on a twelve hour swing shift schedule. Responsibilities included: direct shift supervision, process training, troubleshooting and crew performance reviews.  Area engineer for the chloropicrin plant and associated projects. |
|  |  | |  |
| 02/96 – 02/90 |  | | Project Engineer  ETS, Inc.  Roanoke, Virginia  (An engineering consulting firm specializing in air pollution control equipment design, testing and permitting)  Lead project engineer on design team for ETS, Inc.’s proprietary flue gas desulfurization systems: 1) Dry-reactor (spray dryer) and 2) Limestone Emission Control (LEC) System. Responsibilities included design, start-up, operation, data analysis and report writing for a 1MW LEC pilot plant that was located at Ohio University. An LEC system was installed in Taiwan.  Project engineer for client companies obtaining air permits. Also managed and conducted source emission test programs. |
|  |  | |  |
| 01/87 – 12/89 |  | | Research Assistant  Department of Chemical Engineering  Ohio University, Athens, Ohio  Responsibilities included: 1) development of the first generation computer modeling of the LEC process as a thesis topic and 2) operation of the LEC fixed-bed pilot plant. Duties included data acquisition, equipment maintenance and repair. |
|  |  | |  |
| 09/85 – 12/86 |  | | Graduate Assistant  Department of Chemical Engineering  Ohio University/ Athens, Ohio  Responsible for the operation of the senior chemical engineering laboratories. |
|  |  | |  |
| 06/86 – 09/86  06/85 – 09/85  06/84 – 09/84 |  | | Summer Chemical Operator  Lubrizol Corporation  Painesville Plant/ Painesville, Ohio  Chemical operator in the batch production of specialty engine lubricants. |
|  |  | |  |

|  |  |  |
| --- | --- | --- |
| **EDUCATION:** |  |  |
| 1987 – 1989 |  | M.S. Chemical Engineering  Ohio University/ Athens, Ohio  Thesis Title: “A Mathematical Simulation of ETS’ Limestone Emission Control Process Using the Method of Characteristics: Fixed-Bed Configuration/Gas-Phase Mass Transport Control.” |
|  |  |  |
| 1981 – 1985 |  | B.S. Chemical Engineering  Ohio University/ Athens, Ohio  Engineering in Training Certificate.  Scholarships and Activities:  Tau Beta Pi (an honorary engineering society)  Dean’s Scholarship and ROTC Scholarship  Lambda Chi Alpha Fraternity; Executive Committee and Sgt. Of Arms  Ohio University Barbell Club: Officer 1985 – 1988. |

**PAPERS AND PUBLICATIONS:**

Visneski, M.J., M.E. Prudich and K.W. Appell, “A Status Report on the Moving Bed Limestone Emission Control (LEC) Process Pilot Plant Program” presented at the AIChE conference, Pittsburgh, PA July 27 -30, 1992.

Prudich, M.E., S.N. Reddy, K.W. Appell and J.D McKenna, “A Pilot Demonstration of the Moving Bed Limestone Emission Control (LEC) Process” presented at the AWMA conference, Kansas City, MO June 15 -19, 1992.

Visneski, M.J., K.W. Appell, M.E. Prudich and K.J. Sampson, “Mathematical Modeling of the Fixed Bed Limestone Emission Control (LEC) System” Proceedings: Seventh Annual International Pittsburgh Coal Conference, Pittsburgh, PA September 10 – 14, 1990.

Prudich, M.E., M.J. Visneski, K.W. Appell, J.D McKenna, and J.E. Wright “A Pilot Demonstration of the Limestone Emission Control (LEC) System” presented at the International Speciality Conference on Environmental Challenges in Energy Utilization During the 90’s, sponsored by APCA, Cleveland, OH, October 9-12, 1988.

Prudich, M.E., K.W. Appell M.J. Visneski, J.D McKenna, D.A Furlong, J.C. Mycock, J.F. Szalay, and J.E. Wright “Small Pilot Demonstration of the Limestone Emission Control (LEC) System” , Ohio Coal Development Office, Grant No. CDO/R-86-24, May 1988.

Staron, R.S., R.S. Hikida, M.J. Leonardi, R. Gilders, F.C. Hagerman, J.E. Falkel and K.W. Appell, ”Muscle Damage Following Percutaneous Needle Biopsies and Its Assessment Based Upon Severs Creatine Kinase Activity”, May 1988.

**REFERENCES**

*Available on Request*