

# R. Zachary Pagel

Director, Product & Business Development, Nutrient Control Systems, Inc.  
Director, Integrity Animal Health Products, Nutrient Control Systems, Inc.

## Experience Summary

Over 20 years experience in project management, design, sales, marketing and implementation of complex programs and systems including:

- ~ RC&D PADS Project
- ~ EPA, PFRP Regulation
- ~ Regulation of Waste Management
- ~ Waste to Energy Technology
- ~ Carbon/ Nutrient Credit Generation
- ~ Portable Manure Chemical Treatment
- ~ Animal Health Products
- ~ Organic Matter Amendment
- ~ Manure Storage Treatment System
- ~ Livestock Bedding Sterilization
- ~ Advanced Electronic Weapons Systems
- ~ Radar Guidance Systems
- ~ Thermal Imaging Systems
- ~ Electro-Mechanical Systems
- ~ Telecommunications and Data Networking
- ~ GIS

In his current role as Director of Product and Business Development Mr. Pagel continues to explore new applications for existing and new technologies for the Natural Gas industry and nutrient management related markets in North America. He is active in promoting education, eco-friendly legislation and funding for Nutrient Control Systems' diverse clientele.

Mr. Pagel serves Nutrient Control Systems in a lead technical and project management role with foci on new markets, product R&D and implementation. Mr. Pagel continues to refine advanced treatment systems, chemical and internal systems logistics.

Mr. Pagel Mr. Pagel has experience in water resource management, air pollution regulation, land use planning and environmental law. Mr. Pagel's submission to PA House of Representatives for anti-idling legislation was adopted as written in 2008.

Mr. Pagel continues to work as technical advisor to the Chesapeake Bay Commission, Natural Resource Conservation Service (USDA), Rural Community and Development (USDA), PA DEP, PA Fish & Boat Commission. Mr. Pagel applies expertise in innovative green technologies that create synergies among communities, public and private interests. As lead technical engineer, Mr. Pagel has collaborated with European partners to refine innovative portable waste separation equipment such as the KEMIRA AL2000.

Mr. Pagel successfully developed a new division of Nutrient Control Systems; Integrity Animal Health Products where he continues to serve as Director. He developed chemistry, research, packaging, marketing and an expanding nationwide distribution network.

## Credentials

- o B.S. Geo-Environmental Science, Shippensburg University. 2007
- o GIS Certification, Shippensburg University. 2007
- o SafeLandUSA Certification, Drill Rig/ Well Site Safety
- o SafeGulf Certification, Drill Rig/ Well Site Safety
- o Safety
- o Talisman Energy Certification, Drill Rig/ Well Site Safety
- o Shell Energy Certification, Drill Rig/ Well Site Safety
- o Pennsylvania Geographers Association
- o Pennsylvania Academy of Science Contributing Writer
- o Newville Historical Society Contributing Researcher
- o Cumberland County Penn Township Planning Committee
- o Cumberland County Rails to Trails Committee
- o Pennsylvania Clean Air Board
- o Grace B. Luhrs Elementary School Advisory Board
- o Plank Owner, USS John S. McCain, USN
- o Disabled American Veteran Association

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## Positions

- Director, Product & Business Development, Nutrient Control Systems 2010-Present
- Director Integrity Animal Health Products, 2008-2010
- Project Manager, Nutrient Control Systems, 2007-2008
- Intern Pennsylvania House of Representatives, 2006-2007
- Owner, Colonial Reproductions and Preservation, 2004- 2007
- Director of Telecommunications and Networking, Weston Solutions, Inc. 1999-2003
- Consulting Director of Telecommunications and Networking, Delaware Department of Health and Social Services, 1998-1999
- Consultant Telecommunications, Technology and Data Services, United States Postal Service, United States Postal Inspection Service, 1996-1998
- Project Manager Telecommunications and Networking, Marconi Corporation, 1994-1996
- Non Commissioned Officer, Advanced Electronics Weapons Systems, United States Navy, 1991-1994