

# Food Science Building



University Park, PA

## Architecture / History

- This building will serve as the 4th home of the PSU Creamery dating back to 1889
- Designed to make a visible statement about the importance of the Creamery Processing/Manufacturing Areas
- Organized to allow for exemplary Good Manufacturing Practice (GMPs)



## Project Team

- Owner: The Pennsylvania State University
- Architect: IKM Incorporated
- Engineers: H.F. Lenz Co.
- Food Processing: Food Engineering, Inc.
- Construction Manager: Gilbane Building Co.



## Structure

- Mini piles and c-i-p grade beams
- Structural steel frame and composite metal decking
- Structural slab in production area
- Precast double tee's in pilot plant

## Electrical / Lighting

- Power: 12,470V / 480/277V / 208/120V
- Overhead bus duct system is used to feed the pilot plant & production areas
- Emergency power from PSU 4160V emergency loop
- Recessed parabolic and compact fixtures are used in offices and corridors with fluorescent lamps
- Pendant hung gasketed fixtures are used in Pilot Plant

## Mechanical

- Steam for heating and processing is routed to the building from PSU's existing steam tunnel along Curtain Rd.
- Chilled water for cooling is provided by PSU's campus-wide loop
- VAV AHU's are utilized throughout most of the building
- Constant volume, single zone AHU's are utilized in the Production and Sales Areas
- Plumbing is challenging due to the needs in the laboratories and food processing areas



Anthony Lucostic—Construction Management

<http://www.arche.psu.edu/thesis/eportfolio/current/portfolios/ajl227/>