

Cost

Construction: \$18,000,000

MEP Construction: \$5,000,000

Owner

Loras College

Dubuque, Iowa

Steve Schmall,

Vice President

Finance and Admin. Services

John McDermott

Physical Plant Director

563.588.7011

Team

Principal in Charge:

Dwight Schumm, PE, LEED AP

Project Manager

Kelly Harrer, PE, LEED AP

Mechanical Engineer

Kelly Harrer, PE, LEED AP

Electrical Engineer

David Shelley

Architect

GLTArchitects

St. Cloud, Minnesota

David Leapaldt, Principal

320.252.3740



This project completed Loras College's new 2000 seat arena for competition basketball and volleyball. It also holds a hall of fame wing with offices, a wellness center and a clock tower section with a connecting walkway to an adjacent campus building.

The HVAC system is geothermal with ventilation air provided via energy wheel heat recovery units. The geothermal field uses 300'-deep closed loop wells in an adjoining athletic field. The larger spaces like the arena are handled with water to water heat pumps connected to air handling units with high CFM airflows.

Electrical design's primary challenge was the arena lighting. This multi-use facility could be used for competition sports one day, graduation exercises the next day followed by a performing arts event. Lighting design provided varied strategies by event.

Other electrical systems include power distribution from Alliant Energy's 15 kV East Campus Loop, emergency power and egress lighting issues and a complete addressable fire alarm system.

Technology design included phone, fiber and cable TV services and, multiple sound and a security system integration.

