



Celebrating 56 Years of Service 1951 - 2007

# B&P CE

BITS & PIECES OF  
CONSULTING ENGINEERING

Summer 2007 Newsletter

## OUTSTANDING CONSULTING ENGINEER OF THE YEAR

Bridgers & Paxton Consulting Engineers, Inc. was honored at the New Mexico Associated General Contractors' annual Best Building Awards Banquet as the Outstanding Consulting Engineer Industry Choice Award winner for 2007. The AGC Industry Choice awards program involves an internal survey of the New Mexico Building Branch's members. B&P's owners attended the annual banquet to accept this outstanding recognition by our construction industry peers and are proud to receive this honor.



B&P was also a design team member on several 2007 Best Building Award projects. The PNM Resources Building in Albuquerque was a Grand Winner for both the Design/Build and Energy Conscious Design-Construction award categories. The Cramer Hall Additions and Renovations project at New Mexico Tech was the Grand Winner for the Best Buildings \$5 to \$10 Million Award. The New Gallup Aquatic Center was also a Grand Winner for the Municipal and Utilities Award category. These awards are a validation of B&P's efforts to maintain strong business relationships with our clients, construction, engineering and architectural associates.



Gallup Aquatic Center - Gallup, NM

Photo provided by Dekker/Perich/Sabatini



PNM Resources Building - Albuquerque, NM

## TOP SOUTHWEST MPE FIRM

For the fourth year, Bridgers & Paxton was recognized in *Southwest Contractor* magazine as the Top MPE Design Firm for Arizona, New Mexico and Nevada.

B&P's strong engineering presence is not limited to the Southwest. Our steady growth over the last ten years has placed our company on several top national design firm lists. B&P competes for business opportunities across the United States and was proud to be acknowledged in 2006 in the following publications:

**Consulting-Specifying Engineer, Top 100 M/E Giants**  
National Ranking # 54

**Building Design & Construction, Top 50 Engineers**  
National Ranking # 42

These rankings were calculated according to 2005 annual revenues and/or billings.

# Board of Directors Update

At Bridgers & Paxton we welcome the concept that "Change is inevitable; change is constant." Over the last few years our Board of Directors has reorganized and adjusted to several retirements, leadership changes and exceptional growth in our organization. Our Board is first and foremost a group of practicing engineers, but they also have roles in the management of our corporation.

**Abbas Shirian, P.E.**, a Vice President, has been with B&P since 1993. He is a Mechanical Engineer and manages projects for our Albuquerque commercial design group.



(Top) Abbas S., Scott A., Dwight D., Rich R., John H. and Mike S.  
(Bottom) Steve O., Mike D., John G., Bill H. and Ron V.

## Firm Quick Facts

**56**

Years in Business

**130**

Employees

**9,000+**

Projects Completed

**30**

Professional Engineers

**9**

LEED Accredited Professionals

**3**

Registered Communications Distribution Designers

**27**

States We Have PE Registrations

**Scott R. Atwater, P.E.** is our newest Vice President and has been with B&P since 2002. He is a Mechanical Engineer and manages one of our Albuquerque government design groups.

**Dwight S. Dorsey** is a Vice President and has been with B&P since 1991. He is a graduate mechanical engineer that manages projects for one of our Albuquerque government groups.

**Richard J. Reif, P.E.**, a Vice President, has been with our firm since 1995. He is a mechanical engineer and a certified LEED Accredited Professional that manages commercial projects in our Albuquerque office.

**John F. Heck IV, P.E.** is a Vice President and has been with our firm since 1998. He is an Electrical Engineer and manages our Albuquerque electrical commercial design group. He is also a LEED Accredited Professional.

**Michael A. Slaman** is a Vice President and has been with B&P for 44 years. He manages mechanical commercial and government projects in our Albuquerque office.

**Steven J. O'Brien, P.E.** is a Vice President, Mechanical Engineer, and B&P's Phoenix Office Manager. He has been with B&P since 1994.

**Michael E. Dexter, P.E.** is a Vice President, our Chief Technical Officer and has been with our firm since 1996. He is a Mechanical Engineer and a certified LEED Accredited Professional that manages our Albuquerque office commercial group.

**John B. Grapsas, P.E.** is President/Chief Executive Officer and Chairman of the Board. He is a Mechanical Engineer and has been with B&P for 23 years.

**William D. Herbst, P.E.**, the Chief Financial Officer/Treasurer, has been with our firm since 1997. He is an Electrical Engineer and manages one of our Albuquerque electrical government design groups.

**Ronald E. Vanaman, P.E.** is a Vice President, Chief Information Officer and has been with B&P since 1987. He is a Mechanical Engineer and manages one of our Albuquerque government design groups.

# SUSTAINABLE DESIGN SERVICES

Our firm has been a constant leader in the application of energy-conservation technologies for buildings. **In the 1950s, B&P designed the world's first commercial office building using solar water heating and passive design.** In the 1970s and 1980s, we were a national leader in the design and implementation of solar energy and thermal energy storage systems. In recent years, we have been involved in sustainable building designs and the Leadership in Energy and Design (LEED) rating system. We have always strived to design our projects to reduce negative impacts on the environment and improve the health and comfort of the building occupants. Our sustainable building designs reduce consumption of non-renewable resources, minimize waste, and create healthy, productive environments. B&P has on staff nine accredited LEED professionals and offers a full range of sustainable design services.

## SUSTAINABLE DESIGN SERVICES:

- ◆ Energy Management and Control Systems
- ◆ Under Floor Mechanical/Electrical Systems
- ◆ Indirect Evaporative Cooling with Electric Refrigeration
- ◆ Ground Coupled Heat Pumps
- ◆ Ventilation/Exhaust Air Heat Recovery
- ◆ Low Water Using Plumbing Fixtures
- ◆ Gray Water Systems
- ◆ Lighting Controls
- ◆ Solar Photovoltaics Electrical Systems
- ◆ Solar Mechanical Systems
- ◆ High-efficiency Building Transformers
- ◆ Energy-efficient Lighting Sources
- ◆ Alternative Energy Sources
- ◆ Energy-efficient Distribution Systems
- ◆ High-efficiency Boilers/Chillers
- ◆ CO2 Sensors for Outside Air Control
- ◆ Exhaust Air Heat Recovery
- ◆ Radiant Cooling and Dedicated Outside Air Systems

## LEED PROJECTS... LEED PROJECTS... LEED PROJECTS...

### New Mexico's First Silver and Gold-CS Building Certifications

#### PNM Resources Building - Albuquerque, NM

Bridgers & Paxton provided the mechanical/electrical engineering and commissioning services for this 28,000 SF building. The PNM building is the first in New Mexico to earn silver certification from the U.S. Green Building Council. This building requires less water for indoor uses and landscaping, energy-efficient heating, cooling and lighting; flexible mechanical/electrical raised floor distribution systems, and contains recycled building materials. The design also has attributes that increase the comfort of the building occupants by allowing the employees to control the amount of air to their workspace from the building's raised floor system. The employees are also able to adjust lighting to their personal preferences, and 78 percent of the building is illuminated by natural daylight. This design-build project was completed in early 2006.



#### Jefferson Green Office Building - Albuquerque, NM

This 85,000 SF energy-efficient building is the new headquarters for Dekker/Perich/Sabatini Architects. This is New Mexico's first LEED Gold-CS (core and shell) certified building. B&P provided the mechanical/electrical engineering which included a raised floor distribution (HVAC, plumbing, power, voice and data) system. B&P also designed other sustainable systems including low-flow fixtures, high-efficiency interior/exterior lighting, CO<sub>2</sub> monitoring systems, individual comfort controls, and a direct/indirect evaporative cooling system. The office building uses 30 percent less water and 45 percent less energy than a typical office building. This design-build project was completed in the summer of 2006.

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## TECHNOLOGY CONSULTING

Bridgers & Paxton's services include a full-service Technology Consulting Team. This group is an integral component in B&P's consulting engineering services. Our in-house electrical engineers and RCDD (Registered Communication Distribution Designers) assure a fully integrated design that supports our clients' technology needs. We design into our projects reliability, future growth and convergence of IT and other facility systems that provide cutting edge performance for our clients. Our areas of expertise include:

- ◆ Telecommunication Cabling Infrastructure Design and Specifications
- ◆ State-of-the-art Security and Surveillance Systems
- ◆ Fire Alarm Systems
- ◆ Paging Systems
- ◆ Audio Visual Systems (Presentation, Collaboration and Distance Learning Systems)
- ◆ Hospital and Medical Telecommunication Services (Nurse Call, Patient Monitoring and Code Blue Systems)
- ◆ Data Center/Computer Room Layout and Design
- ◆ Wireless Network Technologies
- ◆ IP and Traditional PBX Voice Systems

Through our knowledge of industry standards and continuous training, B&P is able to provide our clients with the most innovative solutions to solve their technology requirements.

