

# 2018 MEDIA KIT

## Portfolio

*Education*

*Healthcare*

*Public*

*Industrial, R & D*

*Power & Energy*

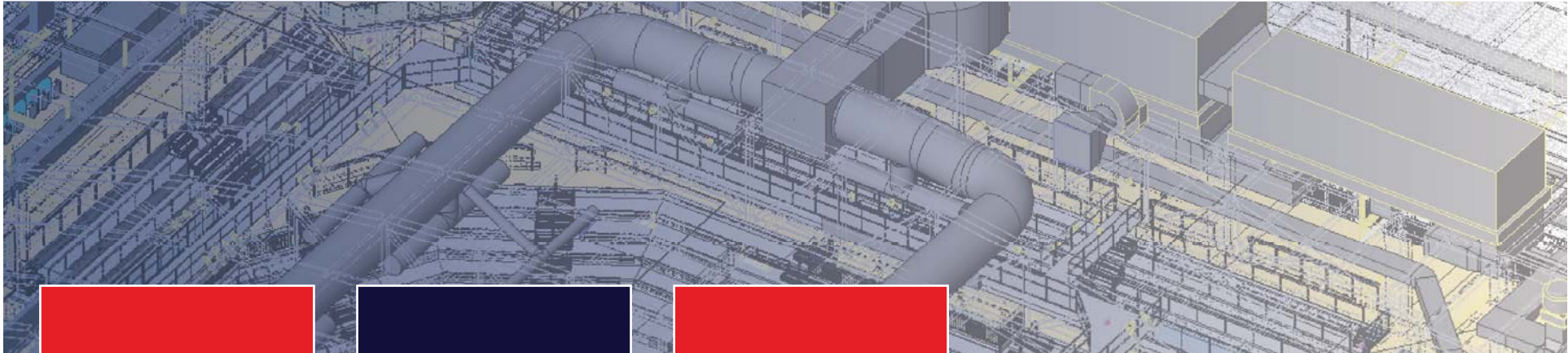
*Sports, Entertainment & Cultural*

*Office & Data Centers*

*Retail & Housing*

*Historic Preservation*





COLLABORATIVE

EXPERIENCED

CUTTING-EDGE

O F F I C E L O C A T I O N S

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Troy, MI 48098  
T (248) 879.5666  
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T (734) 913.4749  
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Email: [pbainfo@pbanet.com](mailto:pbainfo@pbanet.com)

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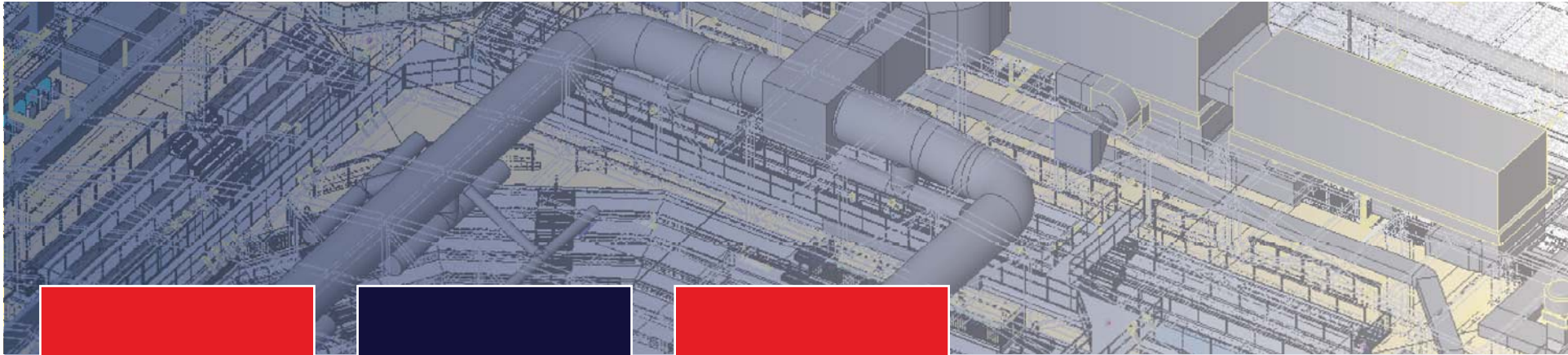
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# H I S T O R Y

When Peter Basso Associates was founded in 1990, a small staff provided only mechanical engineering services until electrical engineering services were added in 1991. Today we have a staff of over 100 who provide comprehensive MEP engineering services. The commitment to quality work and personal attention to clients has never wavered since the inception of the firm.

In 2002, Peter Basso Associates became **100% employee-owned** through an Employee Stock Ownership Plan (ESOP). Being a company of owners means that everyone involved with a project literally has a vested interest in its successful outcome.

**Peter J. Basso, PE, FASHRAE**  
Founder



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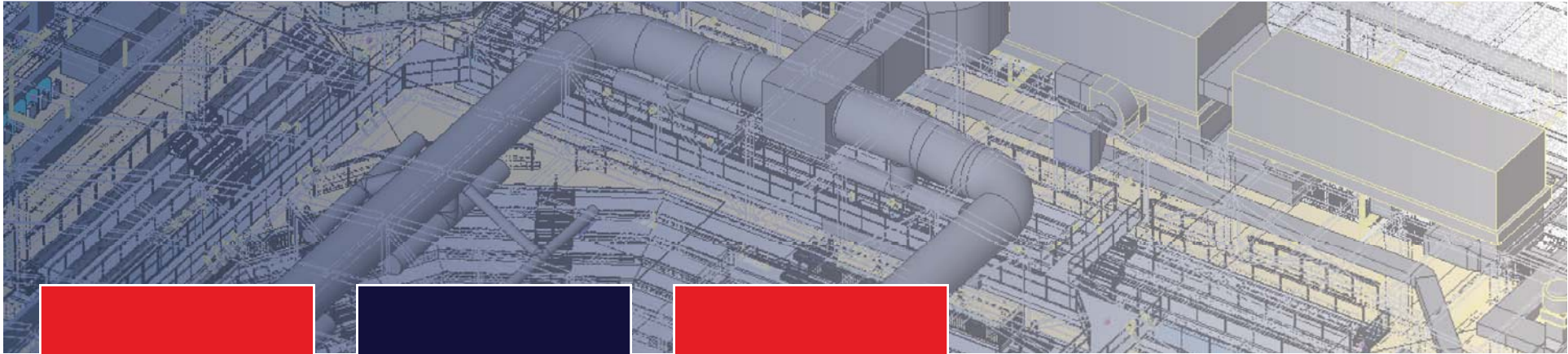
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## S E R V I C E S

Peter Basso Associates excels in the design of high performance buildings that are functional, energy efficient and environmentally conscious. As mechanical/electrical/plumbing systems engineers, we incorporate sustainability into each of our designs, working closely with the architect and other disciplines to optimize system design, minimize long-term energy use and deliver a healthy, productive indoor environment.

Providing MEP Engineering, Energy Management, Architectural Lighting Design, and Commissioning services Peter Basso Associates is organized around market sectors, allowing our engineers to forge deeper relationships with and to provide specialized expertise to clients in each area.

We are leaders in our use of Building Information Modeling technology for mechanical and electrical engineering design, using current versions of Autodesk AutoCAD MEP and Autodesk Revit MEP. New technology – whether it is hardware, software, or methodology – is analyzed and integrated into our design process on an on-going basis.

Using 3D technology to place accurately-sized equipment, ductwork, piping and fittings into a virtual building is a time-saving solution that provides the building owner with a more valuable design that can accurately locate space requirements, and find possible interferences and other potentially expensive-to-correct problems before construction even begins.

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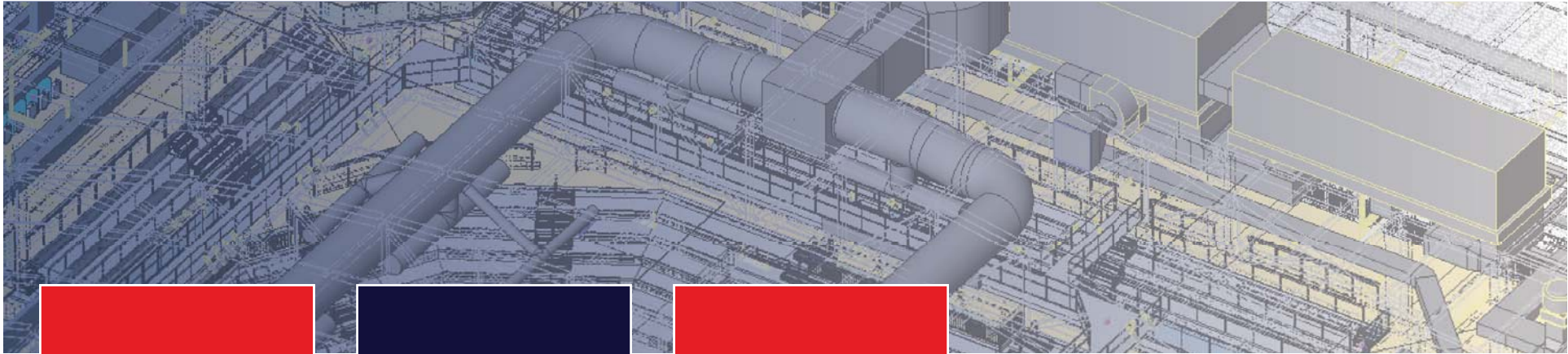
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M A R K E T S E C T O R S

Health Care / Laboratory  
Group Leader: George Isherwood, PE, Vice President, gisherwood@pbanet.com

Higher Education  
Group Leader: Dennis Sczomak, PE, LEED AP, Senior Vice President, dsczomak@pbanet.com

K-12 Schools  
Group Leader: Robert Roop, CPD, LEED AP BD+C, Principal, roop@pbanet.com

Commercial and Governmental  
Group Leader: Scott Garrison, Principal, sgarrison@pbanet.com

Contract Administration / Commissioning  
Group Leader: Randy Wisniewski, Principal, rwisniewski@pbanet.com

Illuminart Architectural Lighting Design  
Group Leader: Robert White, IALD, LC, IES, Principal, rwhite@illuminart.net

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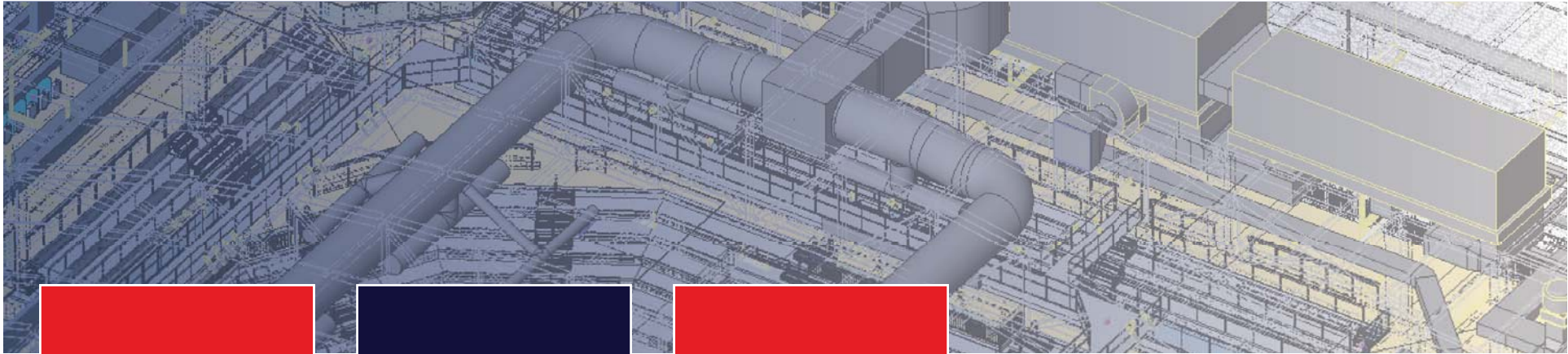
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M I S S I O N

**Your Partner in Engineering the Right Building Environment**

For our owner clients this means being their trusted technical advisors and designing systems that are appropriate for their needs. We will strive to act as an extension of their staff, and to provide a level of service they can't get anywhere else.

For our architectural/contractor clients this means being the long-term engineering firm of choice by acting as collaborators and maintaining our position as one of the premiere organizations in our industry.

For us this means providing a stable, attractive environment in which to make a living and achieve professional and personal growth.

We will be proud of our work, always remembering that our designs enrich the built environment where people heal, learn, work and play.

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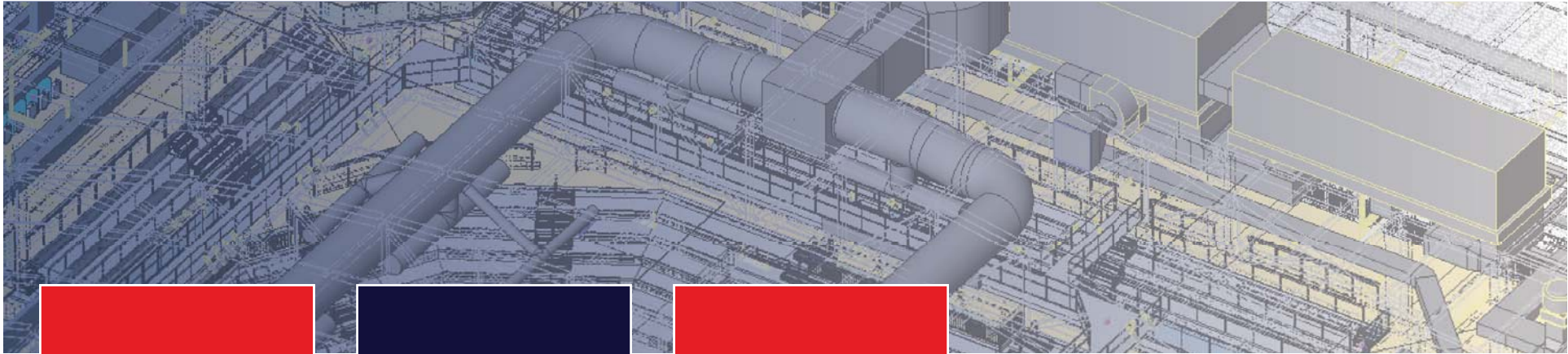
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V I S I O N

**To Be**

- The “go to” engineering partner.
- Known for engineering excellence.
- Continuously improving our processes and efficiency in all areas of our practice.
- A destination employer.

**To Do**

- Work on challenging projects where our expertise, and the value we bring matters to our clients and makes a difference to society.
- Attract, grow and retain top talent with challenging career opportunities and professional development.
- Increase revenue by growing our existing markets and exploring new ones.
- Generate our own opportunities by leveraging our expertise through a strong business development and marketing effort.
- Use technology to enhance the quality of our product, improve efficiency and promote innovation.

**To Have**

- Strong working relationships with quality architectural firms, collaborating with them across all our market sectors.
- A diverse and growing client base of owners, architects and contractors, allowing us to adjust to economic and market changes.
- A fair profit and increased ESOP value.
- FUN doing it!!!

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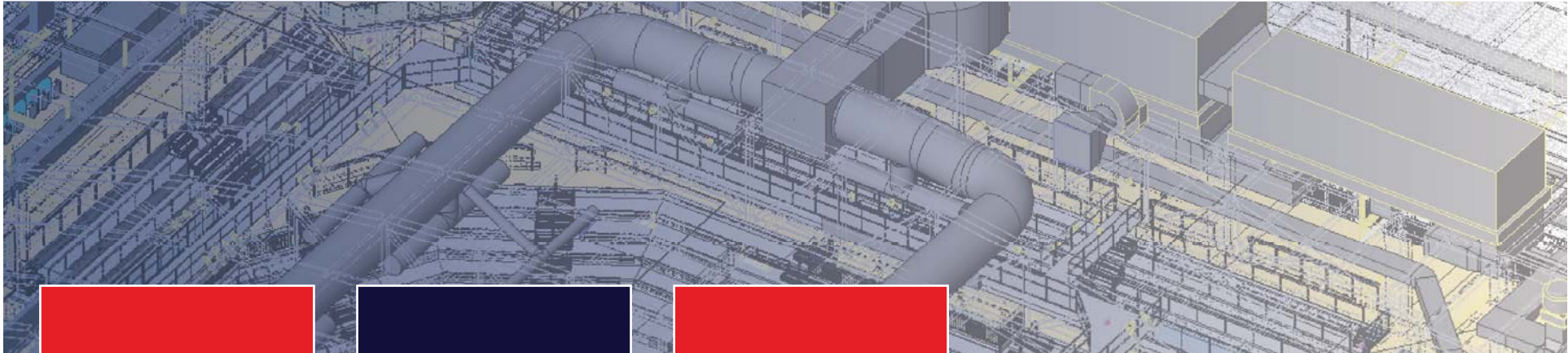
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L E A D E R S H I P E X P E R T I S E



**Peter J. Basso, PE, FASHRAE**

Peter Basso is Chairman of Peter Basso Associates. With over 58 years of experience in the construction industry, Pete has a diverse background in mechanical engineering and project management. His extensive work portfolio includes projects in all of the basic building types, with construction budgets of up to \$1 billion.

Pete believes in a "hands on" approach to project leadership and is actively involved in brainstorming, mentoring and quality assurance on a day-to-day basis. He is deeply committed to excellence and quality in all projects the firm undertakes, and he continually strives to improve the firm's quality processes. Pete has an extensive background in various aspects of quality improvement and is a graduate of the Chrysler Quality Institute.

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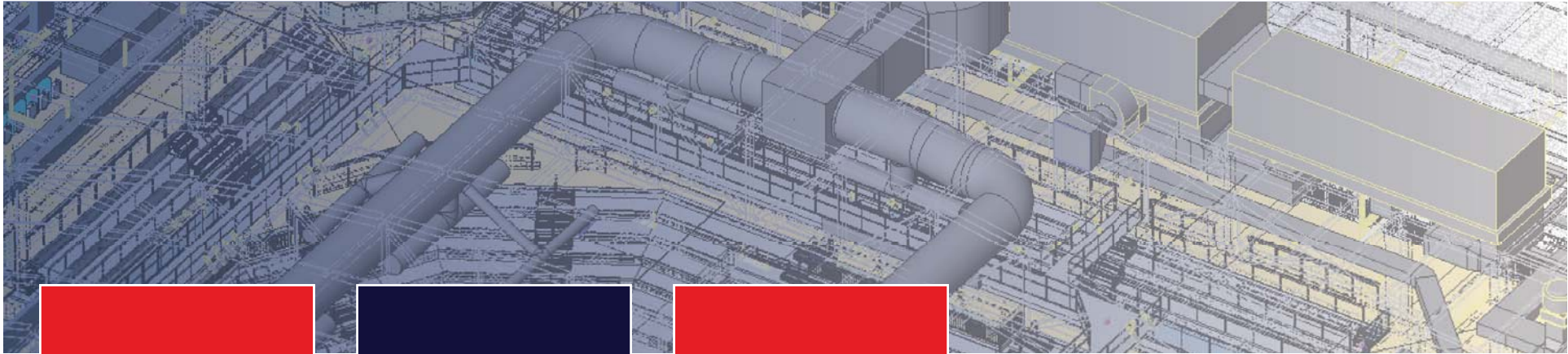
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**L E A D E R S H I P E X P E R T I S E**



**Daniel J. Englehart, PE, LEED AP, President, COO**

Dan serves as the firm's president and COO, coordinating the day-to-day project activities of a large staff of mechanical and electrical engineers, designers, and CAD support Staff. Educated at the University of Detroit with a Bachelor of Mechanical Engineering, Dan is an active member of the American Society of Heating Refrigeration and Air Conditioning Engineers, and has received several awards of recognition for excellence in engineering design from the ASHRAE society and Engineering Society of Detroit.

With a diverse background of over 33 years' design and project management experience, and a strong emphasis on higher education facility design, Dan often takes the role of Principal-in-Charge on higher ed facility project pursuits.

Dan is well-versed in all areas of mechanical system design and project administration and experienced in HVAC, plumbing, fire protection, energy management and control systems design for a variety of project types.

**Publications / Papers / Speeches**

Contributor: Englehart, Dan. "Better design with AutoCAD MEP." *Autodesk*, 2005.

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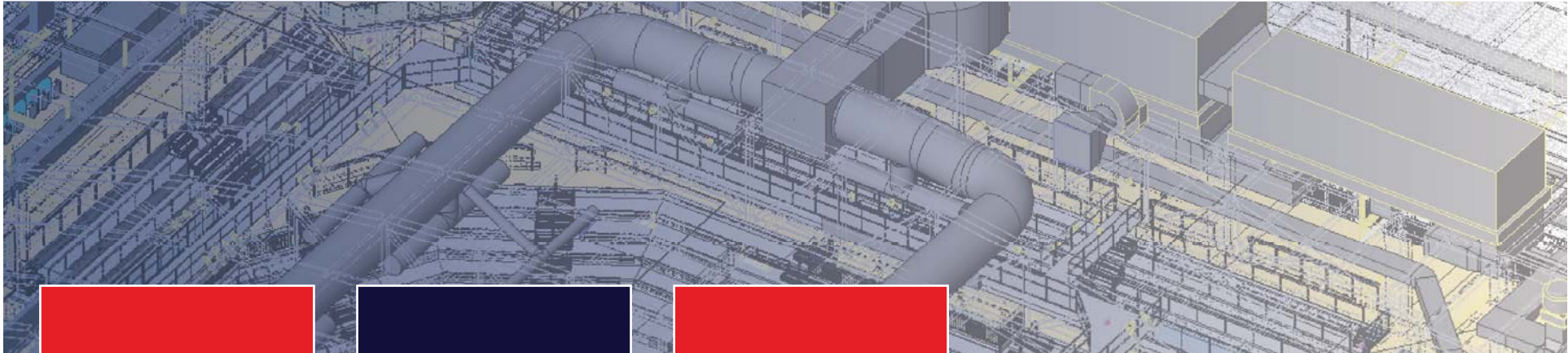
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**Dennis P. Sczomak, PE, LEED AP, Senior Vice President**

Dennis Sczomak is a senior vice president and market leader of PBA's Higher Education (HED) Group. He leads many of the mechanical engineering projects PBA undertakes. He directs the activities of the various team players, including PBA's in-house engineers, designers and CAD support staff, outside contractors, subcontractors, and any required specialty consultants.

Dennis' areas of expertise include underfloor heating and cooling system design, HVAC, plumbing and fire protection design; heating and cooling plant evaluation and design; cogeneration system feasibility investigations and studies; and detailed energy conservation studies utilizing computerized energy analysis. Dennis has particular expertise and experience in the design of complex data centers.

**Publications / Papers / Speeches**

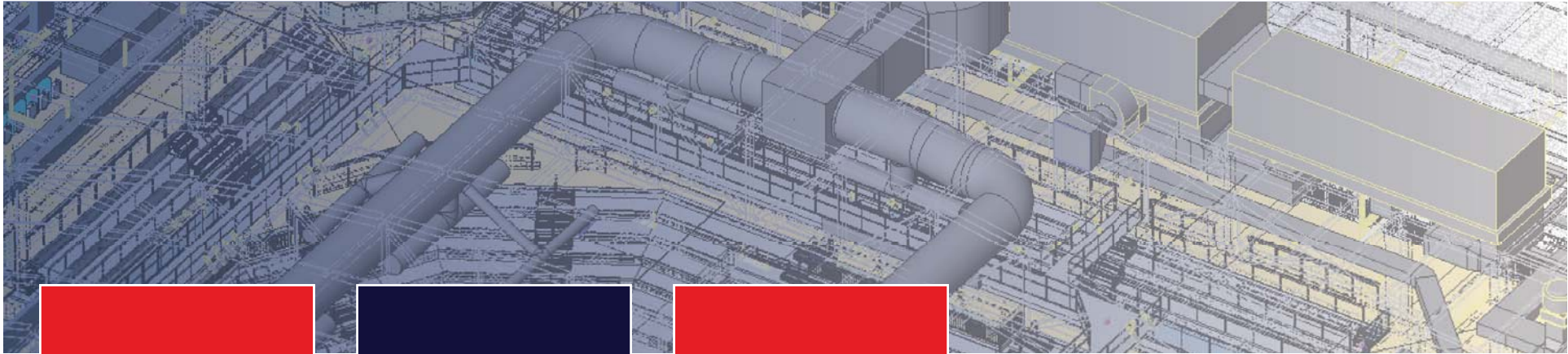
Author: Sczomak, Dennis. "Inadequate Data Center Cooling Systems Are Heating Up the Risk of Equipment Damage." *Business Update*, April, 2006.  
Co-Author: Sczomak, Dennis. "Underfloor for Technology Firm." *ASHRAE Journal*, 2006.  
Author: Sczomak, Dennis. "Underfloor air distribution." *Today's Facility Manager*, September, 2005.

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**Robert N. Roop, CPD, LEED AP BD+C, Principal**

Bob Roop is a principal with Peter Basso Associates and is the market leader for PBA's K-12 Schools Group. Bob has spent more than half of his 28-year career exclusively designing educational facilities and serves as the primary mechanical engineering technical resource for K-12 school projects at Peter Basso Associates. In that capacity, he has developed efficient strategies utilizing water source and ground source heat pump systems to reduce energy consumption in school buildings encompassing all grade levels. These projects have won chapter and regional level ASHRAE Technology Awards, and have been the subject of articles in numerous publications.

Bob was instrumental in the 2007 formation of the Michigan Chapter of the Council of Educational Facility Planners International (CEFPI), and has served as Chapter President, as well as Midwest Great Lakes Region President. Bob is the current membership chair of the Midwest Great Lakes Region.

**Publications / Papers / Speeches**

- Author: Roop, Robert. "Geothermal for School." *ASHRAE Journal*, May 2010.
- Contributor: Roop, Robert. "New Design Concepts for Elementary and Secondary Schools." *Building Design & Construction*, 2010.
- Contributor: Roop, Robert. "Little Green Schoolhouse Rises in Whitmore Lake." *ASHRAE Journal*, 2007.

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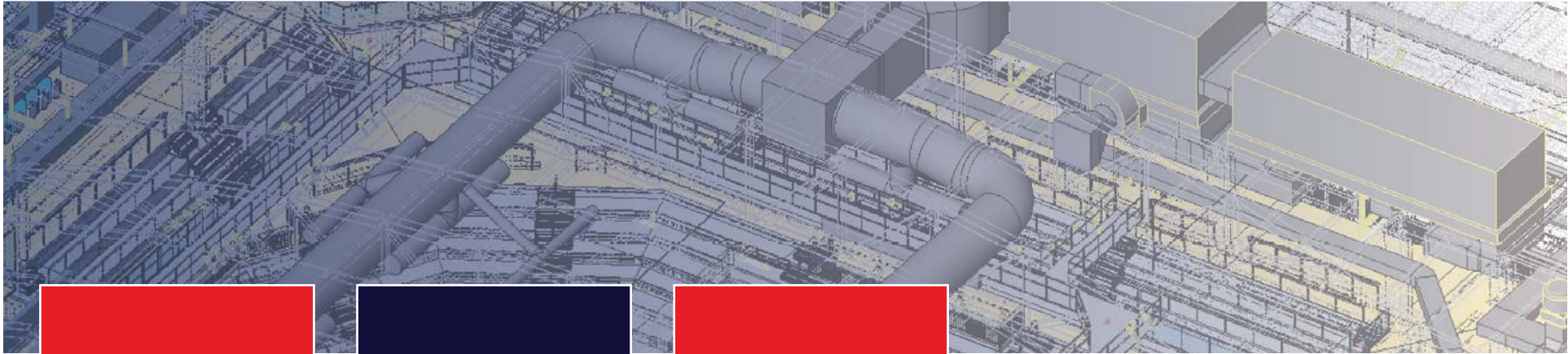
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**Scott A. Garrison, Principal**

Scott Garrison has been an Electrical Engineer in the A/E/C industry for over 30 years and heads up the Commercial and Government Buildings market sector group at Peter Basso Associates.

Scott has served in a leadership role on projects from single office upgrades to large and complex tenant infrastructure upgrades and everything in between. Recently, he led the PBA engineering team in designing and implementing a modern mechanical and electrical infrastructure for an historic high-rise office building in downtown Detroit that was in near disrepair, all while the building remained occupied. Partnering with the owner, the contractors and the construction manager was key to the success of this ambitious, difficult and fast-paced project.

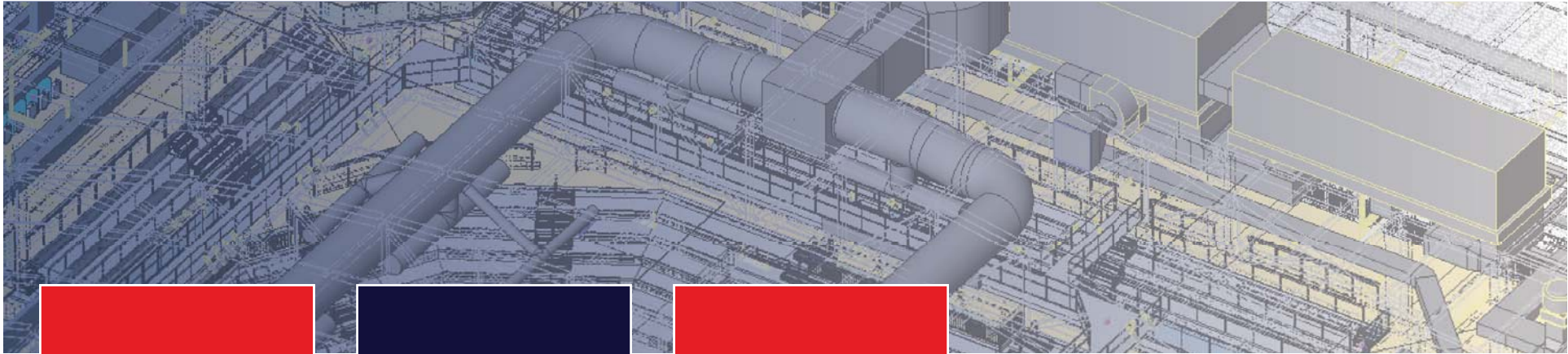
Scott's engineering and project experience is diverse and focuses on providing the right design that meets the client's technical requirements, budget and operational needs. Scott has worked on a range of projects including large corporate headquarters, data centers, casinos, sports and entertainment venues, municipal and educational facilities. His technical experience includes complex power distribution systems, lighting and lighting controls, technology cabling infrastructure and renewable energy. His keen understanding of the client's needs has led PBA to many successful and lasting client relationships.

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**L E A D E R S H I P E X P E R T I S E**



**George P. Isherwood, PE, Vice President**

George Isherwood is a vice president with PBA and is the leader of its Healthcare and Laboratory Group. Possessing over 32 years of experience, George has led many engineering projects for the Healthcare and Laboratory market sectors and is experienced in both new construction and renovation of facilities including patient towers, ambulatory care facilities, operating rooms, cardiac catheterization labs, biomedical research areas, clean rooms, humidity controlled areas, hazardous gas areas and teaching/research laboratories.

George has also led several industrial projects including metal laboratories, temperature/humidity controlled laboratories, Urethane production laboratories, Aluminum production facilities that all support the automotive industry.

As a lecturer, he has discussed laboratory design at American Society of Heating, Refrigeration and Air Conditioning (ASHRAE) conferences and has delivered presentations on the US Pharmacopoeia 797 standard regulating sterile compounding.

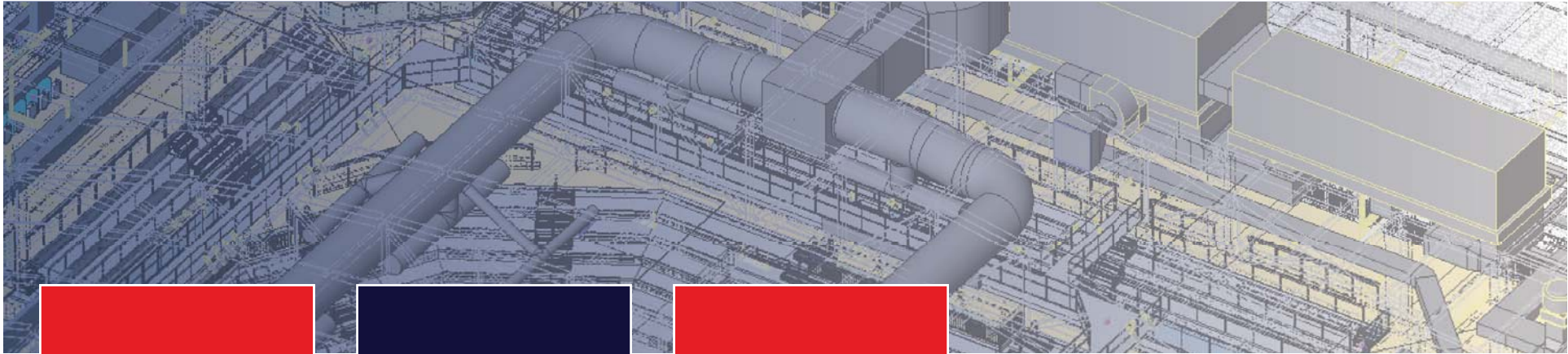
**Publications / Papers / Speeches**

- Contributor: Isherwood, George. "Turning Green Designs into Reality." PME, 2013.
- Contributor: Isherwood, George. "Prescription for Hospital, Healthcare Success." MEP Roundtable, CSE, 2013.
- Author: Isherwood, George. ASHRAE Applications Handbook, Chapter 14, 2007.

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**Randy M. Wisniewski, Principal**

Randy Wisniewski is a principal with Peter Basso Associates and director of PBA's Contract Administration/Commissioning Group.

Randy's over 40 years of experience includes systems design and commissioning for new construction and renovations of a variety of building types. Randy has particular expertise in retro-commissioning and energy audits, which includes extensive field experience, and identification of energy conservation opportunities, operations and maintenance issues, extensive systems operation and troubleshooting and facility improvement measures. Randy oversees the firm's involvement with the Consumers Energy Smart Buildings Program and the DTE Energy Retro-Commissioning Program.

**Publications / Papers / Speeches**

Contributor: Wisniewski, Randy, "Meeting the Energy Challenge," CAM Magazine, July 2014.

Contributor: Wisniewski, Randy. "Take another look at Energy Efficiency." College Planning & Management, April 2010.

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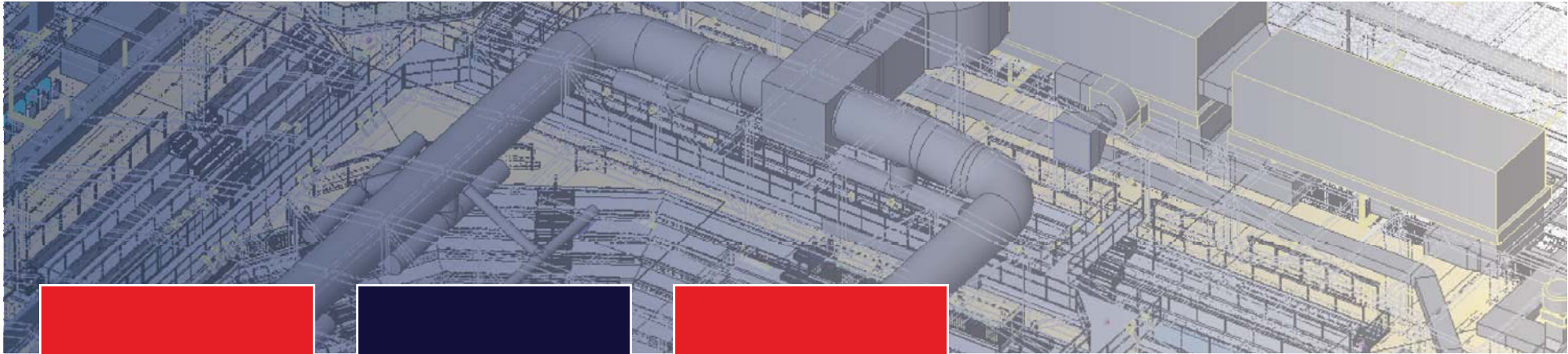
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**Philip G. Saoud PE, CCP, Vice President**

Phil Saoud, a 35-year industry veteran, is a Vice President and the Assistant Director of the firm's Contract Administration/Commissioning Department, with a focus on new building and LEED™ commissioning.

Phil's commissioning expertise includes development of project commissioning specifications and manuals, witnessing functional testing, and the development of owner Operation and Maintenance manuals. He serves as the liaison between the Owner's representatives and the various team members, including contractors, subcontractors, manufacturers' representatives and any required specialty consultants, and he works to assure clear lines of communication are maintained at all times.

Phil has commissioned a variety of building types including multi-story hospital patient towers; K-12 school buildings; automotive proving ground facilities; higher education facilities; labs; office buildings and data center.

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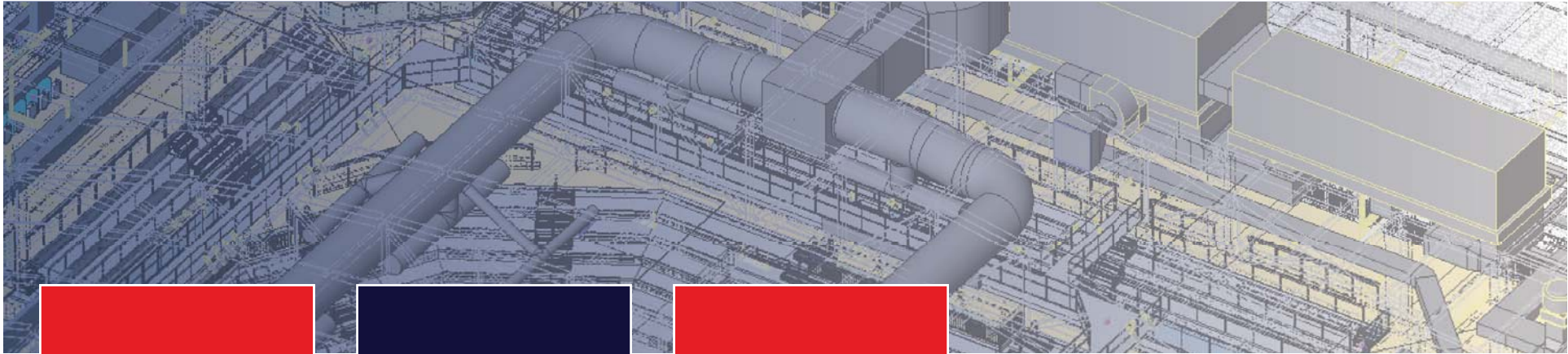
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**Robert White, IALD, LC, IES**

Robert White is a Principal and the director of Illuminart, the firm's architectural lighting design division. From his early days as an Industrial Design graduate at Detroit's College for Creative Studies, Robert has been creating innovating lighting design solutions for over 30 years. His extraordinary range of experience both domestic and international is built upon creative design flare, technical expertise and a collaborative spirit.

Robert has received the Edwin F. Guth Memorial Awards of Excellence for the Qatar National Convention Centre interior lighting and the Detroit McNamara airport terminal. He also received the Control Innovation Award for the Qatar National Convention Centre as well as over 40 other individual awards of recognition and his work has been featured in a variety of industry publications. Robert also serves as guest lecturer for Lawrence Technological University, and the Illuminating Engineering Society, for which he is Treasurer.

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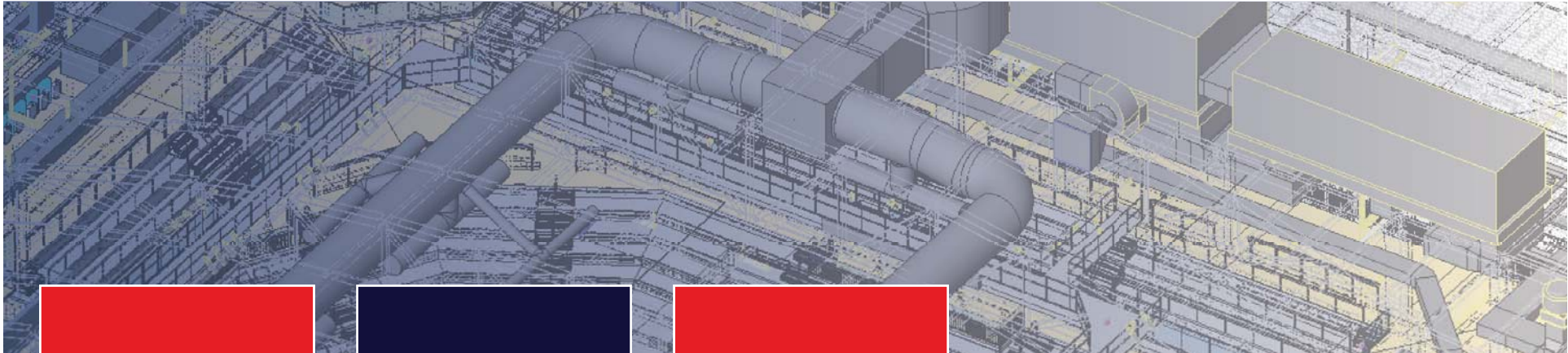
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**James C. Paul, PE, LEED AP, Vice President**

Jim Paul is a vice president and serves in a leadership role in PBA's Healthcare and Laboratory (HCL) Group. Jim has significant experience in mechanical engineering design and possesses expertise in the design of complex HVAC, plumbing and fire protection systems. His project history includes over 30 years' experience in the renovation and new construction of healthcare facilities, from rural community clinics to large urban hospitals. Jim was a key team member involved in the implementation of the Detroit Medical Center 2010-2015 Capital Planning Program involving the renovation of several facilities on the DMC campus.

**Publications / Papers / Speeches**

- Author: Paul, James. "Plumbing: Fixtures and Disinfectants." *Healthcare Design*, April 2013.
- Author: Paul, James. "IAQ in Healthcare Settings." *CSE*, 2013.
- Author: Paul, James. "Plumbing Design for Health Care." *Plumbing & Hydronic Contractor News*, March 2013.
- Author: Paul, James. "IAQ in Healthcare Settings." *Plant Engineering*, 2013.
- Article Contributor: Paul, James. "Oakwood Healthcare System – Delivering for Quality Care." *CAM Magazine*, 2011.

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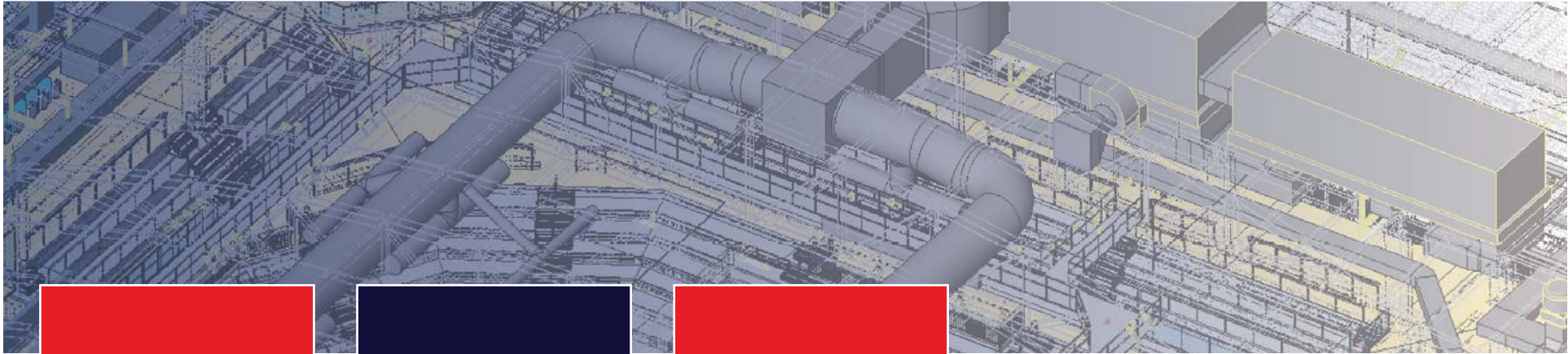
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**Brian M. Runde, PE, LEED AP, Vice President**

Brian Runde has over 40 years of practical, design, and engineering management experience on complex institutional, industrial, and science/research building projects. His designs have focused on applying proven energy conservation strategies to reduce the building operation and maintenance costs for building owners, while providing safe and controllable systems for the comfort of occupants. These systems include dedicated outdoor air systems, chilled beams, induction units, displacement ventilation, heat pumps, and high efficiency central plants. Brian has won numerous ASHRAE technology awards for outstanding achievement in the application of heating, refrigeration and air conditioning technologies, including for buildings ranging from central energy plants to 400,000 square foot museums, and complex science building projects.

**Publications / Papers / Speeches**

- "Chilled Beam Case Studies," presented to the AIA at AIA 2030, March 2014
- "Application of chilled beams in a laboratory building," presented to the USGBC at GreenBuild 2010
- "Right-sized: equipment and controls for super-efficient building systems" presented to the AIA at AIA 2030, August 2012
- "Chilled beam applications," presented to ASHRAE, March 2012
- "Science Building Design Challenge: Higher Air Quality with Lower Energy Consumption," presented to Michigan Associate of Physical Plant Administrators (MiAPPA), 2009

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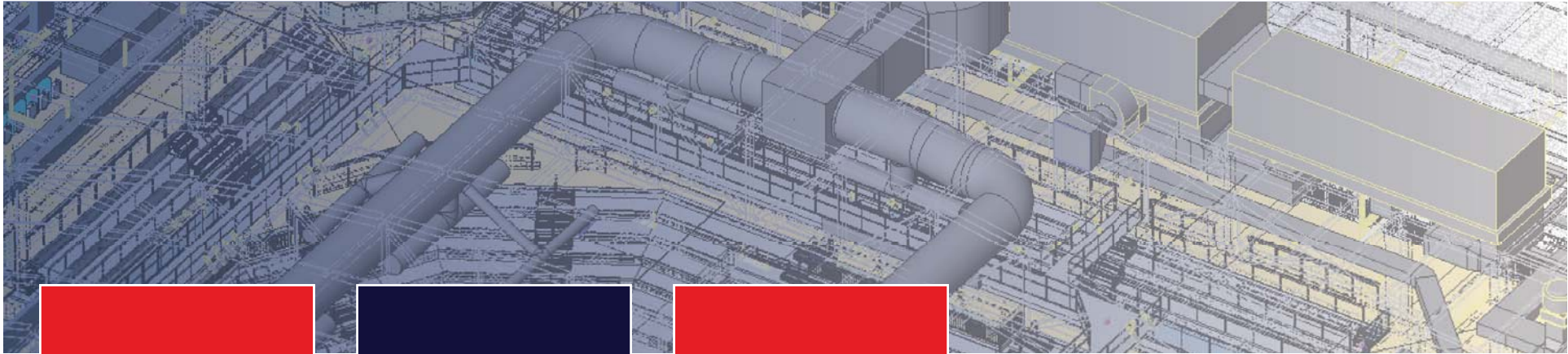
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**Terrence G. Cleis, Jr., PE, LEED AP / Principal**

Terry Cleis is a principal with Peter Basso Associates and a member of its Higher Education Group. He brings a diversity of experience to projects, including electrical system design for student housing; classroom / lecture halls; student centers; various types of laboratories including clean rooms, labs for sensitive equipment and vivariums; sport facilities; athletic fields; music educational facilities; indoor and outdoor performance spaces; office buildings; natatoriums; historical renovations; dining facilities and fine arts facilities such as museums and auditoriums. Terry also has specialized knowledge in the design of electrical systems for data centers.

Additionally, Terry has designed primary and secondary power distribution systems for high-, medium- and low-voltage systems; lighting design; fire alarm systems; security systems; telecommunication systems; emergency power systems; and hazardous area systems. He has also developed short circuit analysis and coordination studies for institutional, commercial and industrial facilities.

**Publications / Papers / Speeches**

Author: Cleis, Terry "Enforcing Arc Flash Standards." McMorrow Report, August, 2005.

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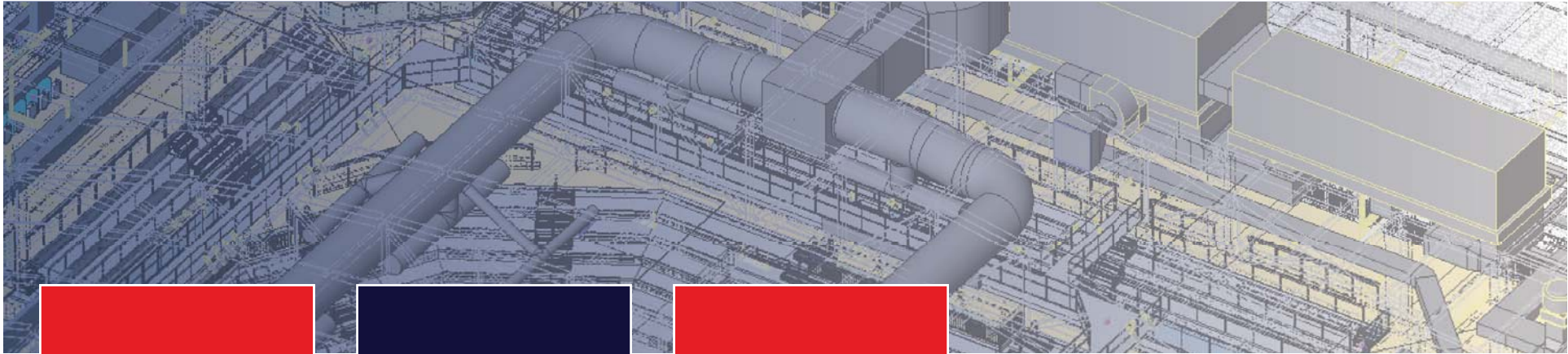
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**Gregory J. Ziegler, Principal**

Greg Ziegler is a Principal with Peter Basso Associates and a member of the firm's K-12 Schools group. He manages projects on a day-to-day basis, overseeing our in-house engineers and designers in the technical production of the work and communicating with the various team members on a project.

Greg's more than 30 years' experience includes electrical systems design for new construction and renovation of all K-12 facility spaces including media centers, gymnasiums, classrooms, auditoriums, transportation centers, and administrative offices.

Greg's technical expertise includes design of complex underground electrical utility systems, fire alarm systems, medium- and low-voltage distribution systems; short circuit analysis, coordination studies, emergency power systems (rotary and static), and hazardous area designs.

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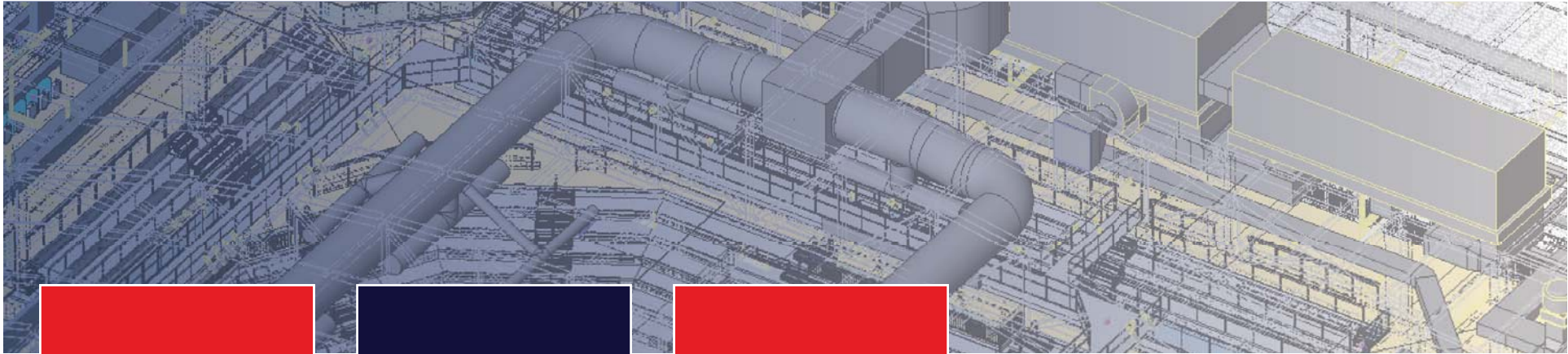
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EXPERIENCED

CUTTING-EDGE

T E S T I M O N I A L S

“The collaborative working relationship between our firms has played a key role in our mutual success. More than just architects and engineers working together, we have achieved a joint sense of commitment to client goals and project innovation.”

~Tim Casai, FAIA, President, TMP Architecture

“PBA’s findings during retro-commissioning of our facility were a great benefit to our organization. They discovered incontestable evidence for needed upgrades and infrastructure replacements. Those discoveries and our decision to implement those repairs have insured our Hospital will thrive into the future.”

~Scott Brown, Facilities Manager, Hillside Community Health Center

“PBA’s expert advice to utilize a geothermal HVAC system as a cost and energy-saving measure was a crucial element to the success of the North Building’s HVAC system implementation. Additional sustainable design solutions such as solar hot water and thermal design installation have proven their position at the forefront of engineering innovation. In addition, their engineering excellence at our new facility earned our project an ASHRAE Technology Award. They continue to impress us in their innovative design engineering solutions and through the geothermal solution, have saved us considerable costs and energy as compared to a conventional heating and cooling system.”

~Tom Donovan, Director of Physical Plant, St. Clair County Community College

Portfolio

Education

Healthcare

Public

Industrial, R & D

Power & Energy

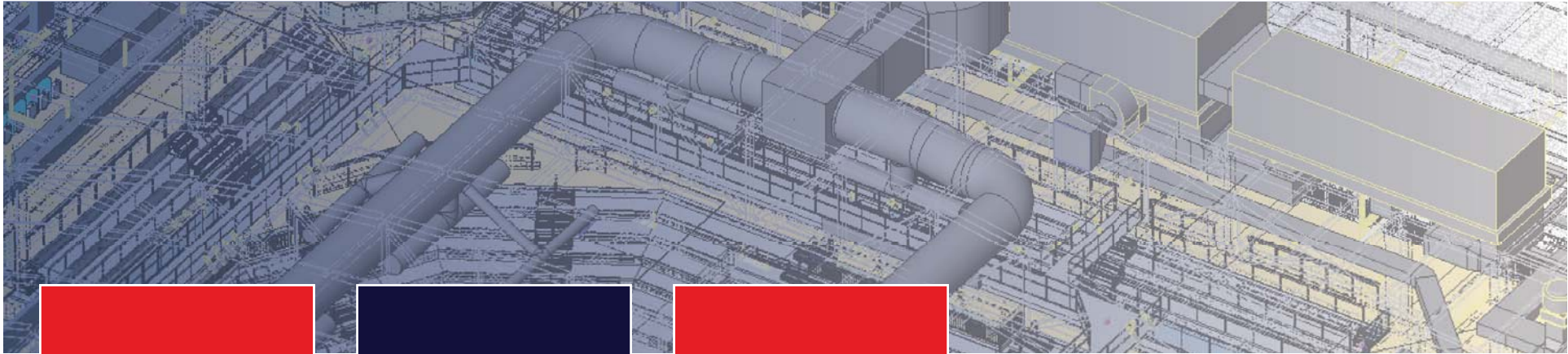
Sports, Entertainment & Cultural

Office & Data Centers

Retail & Housing

Historic Preservation





COLLABORATIVE

EXPERIENCED

CUTTING-EDGE

P B A V E R S U S T H E C O M P E T I T I O N

**PBA**

VERSUS

**THE COMPETITION**

THE BASSO DIFFERENCE

"TOP 10" three years in a row in ENR's National Ranking of Engineering Firms by Revenue

Detroit Free Press 2015 Best Companies to Work for, which means, we LOVE our employees

#1 in Client Satisfaction Survey from ENR

Our closest competition ranked in at #49.

PBA is the ONLY MEP firm with this designation.

Our closest competition came in at #455.

**Portfolio**

*Education*

*Healthcare*

*Public*

*Industrial, R & D*

*Power & Energy*

*Sports, Entertainment & Cultural*

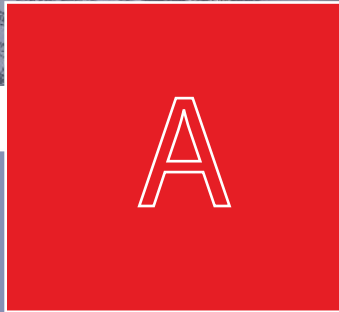
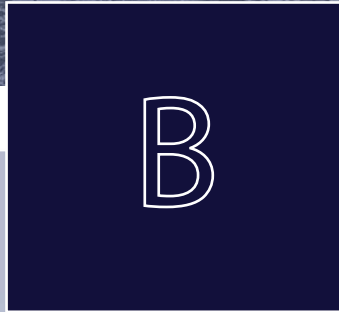
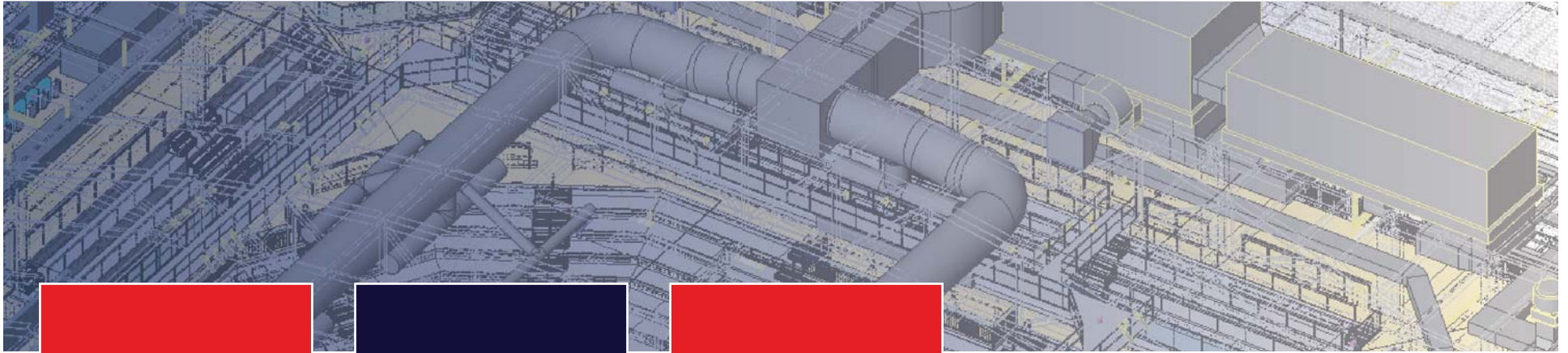
*Office & Data Centers*

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# Portfolio

*Education*

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