

GROW

OFFICIAL PUBLICATION OF THE



The **Green Church**

- Change the World,
One Light Bulb at a Time.
- The Parable of Wal-Mart

7 ABILITIES
OF A
GREEN CHURCH P.3

PLUS:

**THE BETTER WAY TO
BUILD YOUR CHURCH.** P.4

See You at the Conference!

Welcome to another Grow newsletter. I hope you find these few pages to be informative.

TOBEY VAN WORMER
Executive Director



At the NACDB, we work countless hours making sure that our members are educated in the current trends. That way we can pass the knowledge on to you! Our Certified Church Consultants don't get their diploma and sit back. These professionals are committed to life-long learning and that's why you can turn to us for trusted answers. **You can contact these consultants via our website (www.nacdb.com) or give us a call at 866.416.2232.**

Environmental issues are everywhere in the building industry and we feel that the Church can't lag behind in this trend. This issue is dedicated to exploring the implications to your church. Let me know if there are other issues you'd like to see in future Grow newsletters, you can contact me at tobey@nacdb.com.

We know that building a new Church Building is a huge undertaking for Pastors. There are building committees, congregations and staff members with differing opinions. And politics. We also know that many questions are raised at a local level that need to be answered with a national understanding. Our members, who often are based in the same vicinity as

you, are instructed in the national trends and the most effective way of designing and building your House of Worship.

One of the most exciting tasks of our membership is our educational involvement in the national church conferences. We just finished headlining the Church Solutions Conference in Phoenix and we're looking forward to participating in the WFX Spring and Fall and NACBA Summer conferences. This is where we're poised to interact and learn from Pastors. You're the people "on the frontlines" of the ministry. You enlighten us with your heart of worship and you motivate us to continue serving the church.

I hope you continue to support these conferences. This is where you connect with services and products of companies from across the nation, hear amazing speakers and interact with some of our members.

"The NACDB wants to connect our knowledge of designing and building the church with you. We're prepared to listen and deliver trusted answers."

For months the NACDB and Church Solutions magazine has been dreaming about a conference that would be THE place that church leaders could go to experience the future of their church. We wanted it to not only educate but we wanted it to motivate.

When my flight touched down in Phoenix before the conference, I could only imagine what it would look like. Arriving at the conference center in downtown Phoenix, I was greeted by a huge sign welcoming the nation to the Church Solutions Conference. The sign's size was the first glimpse at how the conference would feel.

The Church Solution's conference experts were ecstatic with the registration. See, their parent company produces many other vertical market conferences, and this was the largest group of people to register for an inaugural event. Exciting.

As each presenter discussed their expertise at the seminars, I heard Pastors and Business Administrators excited about the implications to their churches. There was an excitement that's hard to describe. But I instantly liked the feeling. The educational tracks included many topics that are being dis-



cussed and considered by the local church in America. From Multi-venue potential to Marketing. There were discussions of Building Trends and Pastor Burnout. And the keynote speakers expanded our horizons and made us dream.

Thank you all for attending. We've started discussions about what next year will hold. We're going to continue to dream big. We may have to request an even bigger sign.



GREG BARRON
President

VISION

The vision of The National Association of Church Design Builders (NACDB) is to create a nationwide association of firms committed to the practical application of biblical values resulting in their excellence as specialists in consulting, designing and building church facilities that focus on the ministry needs and styles of the churches they serve.

Changing the World One Light Bulb at a Time

At first glance, it's hard to envision how the business practices of a huge corporation like Wal-Mart can be translated to the church environment.

BOB ADAMS
JH Batten Inc.



On second glance, you don't have to look any further than the huge megachurches all across our country – like Willow Creek, Saddleback, Southeast Christian, etc. – to make the connection. A few dozen of these large megachurches impact

thousands of churches all across the country every week. They do it by repeating a common phrase: "Look at the principles of what we are doing here, then apply them in your local context." In other words, don't imitate what these churches are doing, but LEARN from them and put their principles into practice in your local church.

The same principle applies to Wal-Mart and your church: Your church can take significant actions that will enable it to become more energy efficient, and in the process, improve not only your bottom line but also emerge as a community.

The Church – the First Environmental Group

Scriptures clearly point out that God created the Earth, and that mankind is to be the "steward", or manager of His Creation. How are we doing? No matter which way we turn, we face some very profound problems: rising energy consumption. Steadily increasing oil prices, and by extension, all energy costs. Greenhouse gas emissions. Dependence on polluting coal and foreign crude oil. Global warming. What is the response of the church?

First, we must get our own "house" in order. How can you help your church become green?

- Train building occupants and maintenance staff in sustainability methods
- Employ environmentally preferable landscaping practices
- Purchase resource-efficient and non-toxic cleaning products and supplies
- Use automated monitors and controls for lighting, equipment, and HVAC
- Reduce waste through source reduction and recycling
- Support practices that encourage sustainable transportation

Second, we need to make sure that our "house" is being managed properly.

- Conduct an energy audit of facilities and practices
- Become familiar with Energy Star guidelines for appliances and equipment
- Consult your local utilities for ideas on improving energy efficiency
- Make your maintenance and supply companies your partner



> continued on P.4

Finally, when you are considering expanding your “house” through new construction, make it as green as you can.

- Start right by setting a measurable energy performance target
- Assemble a multi-disciplinary team that will work together to achieve your goal
- Investigate energy-related design concepts that consider the environment, building orientation, resource efficiencies, and other features that will impact performance
- Secure building components, materials, and construction methods that meet minimum guidelines for sustainability and energy efficiency
- Utilize a builder who has a track record for constructing buildings that achieve superior energy performance
- Verify that the new building functions as intended and communicate the intended performance to the building management team
- Constantly evaluate your buildings performance through building automation systems and comparison to other buildings’ performances leader.



Let There Be (Green) Light...

Sustainable design needn't require fancy systems or expensive materials. "Sometimes it just takes common sense", says architect Phil Panzica of Panzica Building Corp. Panzica's Queen of Peace School addition in Mishawaka, Ind. includes celestory windows introducing ample natural light, but with a deep overhang and white roof surface shielding the interior from solar gain.

The Parable of Wal-Mart

Wal-Mart is huge: Over 1.3 million associates in the U.S. A fleet of 7,200 delivery trucks. More than 4,000 facilities in the U.S. Over \$345 Billion in sales. And a vision to change the world, one light bulb at a time.

In September 2006, Wal-Mart announced its "Embrace the Earth" campaign – an aggressive program to encourage "sustainability" of the world's environment, to slash energy use and reduce waste, to push its suppliers to produce goods that don't harm the environment, and to urge consumers to buy green. One of the more visible parts of the campaign is Wal-Mart's goal to sell 100 million compact fluorescent lights (CFL) by the end of 2007.

That's one CFL for every regular customer at Wal-Mart. In the process, Wal-Mart wants to change energy consumption in the US, as well as energy consciousness. All from a light bulb.



MISSION

The mission of The National Association of Church Design Builders (NACDB) is to serve the Church as the experts in the educational process, the architectural design and construction of church-related facilities.

Should Your Church Go Green?

Your church can be designed, built, and operated to be energy and resource efficient. All it takes is a willingness to start with a goal, and assembling the right team to make it happen. The result will be a well-designed, functionally efficient building that is a “living” example of stewardship in action.

Churches are community examples, not only of the ministries the people do, but also of the facilities they have. Church buildings stand for something – the recognition that there is a God of creation, that His people are stewards of the Earth, and that the Church should be a leader and example in all areas of community life.

To put it simply, if we are efficient in the use of our resources, we can be more effective in our ministry endeavors.

Wal-Mart made a huge impact on the national scene by encouraging their customers to make a difference by changing one light bulb. No matter how well-intentioned Wal-Mart is, they shouldn't be the leader in your community when it comes to sustainability issues. So take up the green challenge, and change your world – one light bulb at a time!

7 ABILITIES OF A GREEN CHURCH

- Provide a healthier and more comfortable environment
- Improve long-term economic performance
- Incorporate energy and water efficient technologies
- Reduce construction and demolition waste
- Include renewable technologies
- Improve indoor air quality and occupant satisfaction
- Be easier to maintain and be built to last

For more information on the Green Church contact Bob Adams at badams@jhbatten.com

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Who Will Build Your Church?

BILL DERRICK
Derrick Commercial Contracting

When approaching an upcoming building project, a church will eventually have to face the question of how to hire a design and construction professional.

Traditionally, the church will first hire an architectural firm to prepare the drawings and specifications. Then it will choose a contractor by competitive bidding, usually accepting the contractor with the best price (though, many times, the lowest bid is still well over the church's budget). This is referred to as the design-bid-build (DBB) approach.

This method typically results in many change orders, which means the project may come in even more over-budget. Another problem with this approach is the finger-pointing: The architect says a complication is the builder's fault,

and the builder says it's the architect's fault. Meanwhile, the church is left with a problem that isn't resolved and may eventually cost additional money. All these issues cause frustration for church leaders during the construction of their new facility.

So what can a church do to avoid the potential problems of the DBB approach? The answer is to turn to the design-build (DB) approach, which virtually eliminates all problems associated with the traditional bid method. The DB method means one company has a single contract to provide both services – design

and construction – which eliminates finger-pointing between the architect and the contractor.

According to the Design-Build Institute of America, the DB approach is now used in more than 30 percent of all nonresidential, low-rise construction projects, and market share is growing by about 2 percent each year. The main reason for its gain in popularity is most likely due to the fact that this process assures a project will be completed on time and within budget.

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In 1997, Penn State University conducted a study that presented quantitative evidence that the **DB system is more economical** and efficient than the traditional DBB project delivery system. It reported the following:



These figures make sense because, with the DB method, the designer and contractor work as a team from the start, and coordinate to meet the church's budget and time frame. Certainly, lower cost and less time are major benefits.

LET'S LOOK AT A SUMMARY OF DB'S OTHER BENEFITS:

1. Choosing a construction professional on the basis of confidence and trust – rather than low price – means less risk. In fact, with the traditional DBB approach, the owner must guarantee the contractor that the design documents are free from error. With the DB method, on the other hand, the contractor is the one who guarantees the owner that the documents are complete and free from error, thus minimizing risk to the owner.
2. It sets up good communication and a team relationship among the contractor, architect and owner, instead of an adversarial relationship that can result from choosing your contractor based on low bid.
3. The church gets early cost input from the contractor, as well as creative solutions to problems that arise.
4. The number and size of change orders is greatly decreased.
5. Construction costs are minimized by using the latest systems and methods that the contractor knows are cost-effective.
6. Realistic budgets and completion dates are established early by the contractor, who is under contract to meet that budget and timeline.
7. Single-source responsibility means no finger-pointing.

Of course, to realize these benefits, it is important to hire the right design-builder. Make sure your contractor has the necessary church-building experience. Also be sure you know who will be performing the design-builder's services: Does the builder have a design staff in-house, or does he outsource the work to a separate architectural firm? Make sure that your builder has a proven track record of successfully completing projects on time and on budget. Most importantly, you need to trust that the builder will always be acting in your best interest.

So if DB is so great, why doesn't everyone use this process? It's like every innovation: Humans are slow to embrace change, even when it's for the best. This process is still not as understood as it needs to be. If churches can embrace the fact that they don't need multiple bids for a project, and let go of the fear that they will be paying too much, I believe they will have a much better building experience using the DB process.

UNDER CONSTRUCTION

Work is being done all over the United States! Here's a sample of some projects our members are completing.

- CALIFORNIA (Sacramento)**
Capital Christian Center Renovation
53,019 Sq. Ft.
CharestCorp
- FLORIDA (Orlando)**
First Baptist Church of Orlando New Creation Counseling Center and First Life Pregnancy Center
13,469 Sq. Ft.
Corcoran Companies
- FLORIDA (Orlando)**
The Episcopal Church of the Ascension
10,360 square feet
Corcoran Companies
- ILLINOIS (Carol Stream)**
Crossroads Community Church
16,000 square feet
Professional Building Services (PBS)
- ILLINOIS (Sauk Village)**
First Baptist Church of Sauk Village
12,000 square feet
Professional Building Services (PBS)
- KANSAS (Lenexa)**
Kaw Prairie Community Church
26,000 Sq. Ft.
Bowden Contracting Company, Inc.
- KENTUCKY (Mt. Washington)**
Calvary Christian Church - New Worship Center
15,556 s.f.
Abel Construction Company Inc.
- MINNESOTA (North Branch)**
Abundant Life Church
11,373 Sq. Ft.
Derrick Companies
- NEW JERSEY (Sicklerville)**
Christ Care Unit Missionary Baptist Church
73,000 Sq. Ft.
The Bennett Group
- NEW MEXICO (Rio)**
Rancho Destiny Center
15,000 Sq. Ft.
Britton Construction/Dorman & Breen Architects
- NORTH CAROLINA (Apex)**
Olive Chapel Baptist Church
11,584 Sq. Ft.
JH Batten, Inc.
- TEXAS (Dallas)**
Inspiring Body of Christ
172,000 Sq. Ft.
GL Barron Company, Inc.
- TEXAS (Weatherford)**
North Side Baptist Church
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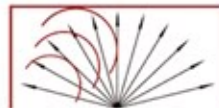
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