



THE AMERICAN INSTITUTE OF ARCHITECTS

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Submission

ID: 266134

Awards Program Information

Organization: **The American Institute of Architects**Application: **2012 Fellowship and Honorary Fellowship**

Nominee Information

*** = Required Field**

Please enter your name as you wish it to appear on your official citation and any announcements should you be elevated to Fellowship.

*First Name Paul

Middle Name / Initial

*Last Name / Surname Dannels

Firm Name SDI-Structures

*City Ann Arbor

*State MI

Province (Outside US)

*Country United States of America

*Nominated By Chapter

*Nominee's assigned AIA Chapter Huron Valley

*Date nominee became AIA member 1996

Please list the Name and Location of the educational institution, the Number of Years attended and the Degree received. Please list in chronological order. Secondary education first, most recent education last.

*Nominee's Education University of Michigan, Ann Arbor Michigan 1981-1987

Bachelor of Science, Architecture 1985

Master of Architecture 1987

State(s) or territory(ies) where nominee is licensed to practice architecture.

*Practice Michigan

*Nominee is engaged in the profession of architecture as: Firm Owner

Example: Firm owner, designer, educator, government architect, etc.

Please list the Firm and Number of Years. Please list in chronological order starting with most recent.

*Work History SDI-Structures, structural engineering consultant, owner/principal 1991-present

Richard Bos Partners, design-build architecture, construction manager 1987-1991

Robert Darvas Associates, structural engineering consultant, designer, 1985-1987

Sponsor

*Sponsor Name Frederick F. Butters

Sponsor Firm Name Frederick F. Butters - Attorneys at Law

Sponsor City Southfield

Sponsor State MI

Fellowship Nominee Information

*Nominee Name Paul Dannels

Category of Nomination

5. To make the profession of ever-increasing service to society

5. Service alternative career

Describe how the nominee's work may be considered notable and how it has advanced the profession of architecture in a 25 to 35 word statement.

*Summary Statement Paul helps to make great architecture happen. As an architect leading a structural engineering consulting firm, Paul elevates both architects and architecture as an innovator, interpreter, and leader in the field of structural engineering.

American Institute of Architects
Application for Fellowship 2013

Paul Dannels AIA

*255 East Liberty, Suite 275
Ann Arbor, Michigan 48104*

AIA member since 1996:

member number:

having received education at:

*The University of Michigan, Ann Arbor
Bachelor of Science, Architecture, 1985
and Master of Architecture, 1987*

and in practice since 1997 as:

*Principal and Co-Founder,
SDI-Structures; Ann Arbor, Michigan
consulting structural engineers*

has been nominated for Fellowship by:

*Jan Culbertson, AIA
President of the Huron Valley Chapter*

and sponsored by:

*Frederick F. Butters, FAIA, Esq.
26677 West Twelve Mile Road
Southfield, Michigan 48034
(248) 357-0831
fred@butters-law.com*

for Category 5:

Alternative Career, Structural Consultant

LAW OFFICES
FREDERICK F. BUTTERS, P.L.L.C.

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SOUTHFIELD, MICHIGAN 48034
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FAX: (248) 357-0832
fred@butters-law.com

FREDERICK F. BUTTERS, FAIA, J.D.

October 14, 2011

Gregory Palermo, FAIA
Chair, Jury of Fellows
The American Institute of Architects
1735 New York Avenue, NW
Washington, DC 20006-5292

Re: Nomination for Fellowship
Paul Dannels, AIA

Dear Mr. Palermo;

Decades ago as a practicing Architect, I joined my colleagues in lamenting the fact that engineers who understood aesthetics were few. I opined that if only there was an engineer who understood design, that engineer would take the profession to new heights. While such an engineer never came along, something better did - Paul Dannels, an Architect trained in the aesthetic who dedicated his career to sensitively integrating structure and aesthetic. The breadth of recognition Paul has earned evidences the appreciation the profession has for his innovative role. The quantum of design awards Pauls' projects have won pays testament to his ability to interpret and express the design aesthetic. Finally, Paul's contributions in the classroom and the board room establish him as a leader. Paul is unique in that he is educated and trained as an Architect, but he brings that knowledge base to bear assisting other Architects in achieving their visions. Without structure there can be no architecture. Structure is necessary; indeed, it sometimes viewed as a necessary evil. Paul views it instead as a necessary beauty, and he has dedicated his career to sharing that unique vision, to the benefit of us all.

Pauls' contributions don't stop with his practice. AIA Michigan has recently undergone substantial changes, changes made necessary by adverse economic conditions and declining revenue. Paul's practice is simple - he takes the vision and he makes it work. Elected by his chapter to the AIA Michigan board of directors, and later by the board itself to positions as an officer, Paul has applied that same thinking. He stepped forward and offered bylaws revisions, budgets, and common sense business leadership that have made AIA Michigan work.

Sensitive to the proposition that what we have borrowed from prior generations must be paid back to future generations, Paul serves as a Professor, teaching his unique structural insights to new generations of Architects. Any member of the College of Fellows owes that debt, and Paul is already well on the road to repayment. Paul's dedication as an innovator, an interpreter, and a leader has earned him a place in the College of Fellows. While I would say that Paul deserves elevation to the College of Fellows, it may well be that the College of Fellows deserves members such as Paul more. Whichever it may be, Paul is unique amongst his peers, and is a worthy candidate for elevation to the College of Fellows

Respectfully,



Frederick F. Butters, FAIA, Esq.

2.0 SUMMARY



Category 5, Alternative Career: *Structural Consultant*

Paul helps to make great architecture happen. As an architect leading a structural engineering consulting firm, Paul elevates both architects and architecture as an:

*innovator,
interpreter,
& leader*

in the field of structural engineering.

I'm a structural consultant. Some in the field will tell you that buildings are held up by a structural skeleton. But I grew up in Buffalo... so I'll tell you that buildings are held up by muscle too. To be surrounded as a child by the likes of H.H. Richardson's State Hospital or John J. Wade's Buffalo City Hall, not to mention the stout, round-shouldered grain elevators aligned along the waterfront, all tell a young man that buildings get their appeal from taught, graceful, contoured muscle.

Along the educational and career route to professional licensure as an architect, I kept drifting toward engineering; its numbers, its discipline, and its craft. So, when a colleague ready to launch a structural consulting firm asked me to be his partner, I readily agreed. It was he who saw the benefit in having an architect leading a engineering practice. We've since built a firm that brings muscle and bone to building challenges that vary from the re-building of downtown Detroit to containing the spectacle of NCAA sports.

No place have I had more pleasure in blending muscle and bone than in rescuing endangered examples of America's historic barn heritage. The creekly bones of barns can be seen straining and strewn across our rural landscape; bones in need of muscle. Innovative uses of carefully concealed modern materials provide the hardy sinew needed to re-invigorate those bones and have allowed me to guide the relocation of threatened barns to locations from Maine to Arizona, and from Virginia to Idaho.

But the calculator is a versatile tool with many applications and broad power to quantify form, so my projects reflect that breadth... and rendering the vision of fellow architects into structural form has been my career and passion. From finely crafted gem-like homes to the sweeping visions of Pritzker Award winners, I've gained the trust to render those visions in muscle and bone. And from intern architects on their first job to CEO's of powerful AE firms to architecture students learning in my classroom, I gladly share my passion for the engineering of great buildings.

Paul Dannels AIA

2.1 ACCOMPLISHMENTS

Paul Dannels, AIA, LEED AP, is a graduate of the University of Michigan College of Architecture & Urban Planning: BA Architecture 1985, and M Architecture 1987. He is Principal and Co-Founder of SDI-Structures, a structural engineering consulting practice. He teaches structural engineering concepts to architecture students at Lawrence Technological University and holds many leadership roles with AIA Michigan and in his community.

A good introduction to Paul's structural engineering work would be Zaha Hadid's Eli and Edythe Broad Art Museum, which opened this fall at Michigan State University. It provides a bold demonstration of how innovation, interpretation, and leadership work together in the field of engineering to help bring great architecture into being.

To the architect who conceives the vision, the benefactor who champions it, and the owner who endeavors to see it come to life, exacting execution of the vision is of paramount importance. The vision is more than just volumes, surfaces, and forms; it's also gesture, expression, and intent. So it's not enough to merely bring physicality to the imagined form, it needs to be done in a way that preserves the spirit in which the design was conceived.

Thus, the engineering of the Broad Art Museum became an exercise in communicating with the architect about exceedingly complex geometry in a most nuanced way; communication that took place across three BIM software platforms: Rhino, Revit, and Tekla. When Paul recognized that the most challenging phase of communication was bound to be encountered during the production of steel shop drawings, he advocated moving away from the traditional shop drawing process in which drawings are prepared by the fabrication team. He convinced the team to adopt a plan whereby his firm would have the steel shop drawings prepared concurrently with construction documents. Steel bidders then had the opportunity to bid the project and also bid for use of the shop drawings, which ensured that the owner was paying a fair price for shop drawings that the design team had prepared.



Broad Art Museum

By initiating this innovative application of BIM capabilities and by leading the team in its implementation, Paul ensured during the construction document phase that the architect's vision would be interpreted in structural form precisely to her exacting expectations.



Robert B. Aikens Commons



Lamar Headquarters



S.T. Dana Building

2.11 INNOVATOR: the projects referenced in this section were completed by Paul in his role as design principal for the structural consultant and engineer of record, *SDI-Structures*. They illustrate his commitment to engineering innovation, highlighting two specific areas: structural steel framing and barn restoration technology.

IDEAS²:

The American Institute of Steel Construction honors exceptional building engineering through its IDEAS² honors program: Innovative Design in Engineering and Architectures with Structural Steel. IDEAS² awards are the highest honors bestowed on steel design efforts in the United States and usually twelve or fewer are named each year when the awards are announced at the National Steel Convention.

The recognitions often go to large firms; only a few small firms routinely earn recognition. Paul is unique in having been honored three times in recent years:

2012: Robert B. Aikens Commons, recognized for its bold pairing of a graceful atrium skylight and gothically styled pedestrian bridge.

Jury comment: *"The building defines how modernity can coexist with tradition"*

2010: Lamar Corporate Headquarters, recognized for its stunning 125 foot office cantilever and the sophisticated analysis methodology used to ensure user comfort.

Jury comment: *"This is not a building you could drive by without taking a second (or third) look"*

2004: S.T. Dana Building, recognized for its sensitive engagement of the surrounding historic structure and innovative structural load path.

Jury comment: *"A subtle architectural solution to enclose the central atrium has been elegantly achieved using simple structural steel detailing"*



Hulen Meadow Home



Florence Nursery



Ellis Barn

accomplishments continued...

Barns:

America's rich barn history is best honored when this proud agricultural vernacular is preserved in place, but the forces of development and the shifting realities of agricultural land use often put barns at risk. Many of these structures are now finding new use in new locations where these architectural treasures of our past can continue to be enjoyed. Paul's engineering approach to the re-use of historic barn frames, developed over time in partnership with a number of architects committed to the re-use of threatened barns, has permitted the re-location of numerous otherwise lost barns to locations across the United States.

The barns of New England, with their rugged post and beam construction, are particularly well suited for re-use. Paul has been able to help find new uses for these frames even in mountainous Idaho where snow and seismic forces far exceed forces familiar in the east. Central to the success of these projects is the understanding that construction techniques and practices common to nineteenth century barns generally impart excess gravity load bearing capacity when considered in the context of modern building codes. The original lateral systems however tend to be significantly deficient by current standards. Paul employs structural insulating panels to provide an outer second skin that acts as a lateral load bearing system, while the original load bearing frame can be used to provide the gravity system. Starting most notably with the Mountainside home in Hailey, Idaho and working closely with architects on many subsequent barn renovations, Paul has developed an arsenal of structural details used to accomplish this complementary division of structural systems.

Critical to the applicability of these details is the fact that they are complementary not just to one another, but also complementary to the priorities of the design architect, whose interest in accomplishing high performing building enclosures also capitalizes on the use of structural insulating panels. Careful development of sill details, jamb details, and eave details that conceal the thickness of the panels preserve the original appearance after a secondary system of reclaimed barnboards is applied outside of the panels. This close partnership between architect and engineer achieves results that have been embraced in many locations and benefits in part from the fact that the engineer is in fact an architect as well.



Cranberry Lake

accomplishments continued, select barns...

River Home - Barn Relocation

Sewickly, Pennsylvania: 2011

Charles Bultman, Architect

Hulen Meadows Home -Barn Relocation

Hailey, Idaho: 2010

Miller Architects PC, Architect

North Egremont Home - Barn Relocation

Great Barrington, Massachusetts: 2005

Charles Bultman, Architect



Hillside Home

Florence Nursery - Barn Relocation

Henderson, Arizona: 2005

Charles Bultman, Architect

Ellis Barn - Barn Relocation

Waterford, Michigan: 2005

Ekocite Architecture, Architect

Cranberry Lake Barn - Barn Re-creation

Rochester, Michigan: 2004

Ekocite Architecture, Architect

Hillside Home - Barn Relocation

Richmond, Virginia: 2003

Charles Bultman, Architect



Sun Valley Home

Lakefront Home -Barn Relocation

Madeline Island, Wisconsin: 2003

Charles Bultman, Architect

Sun Valley Home - Relocated Barn Complex

Sun Valley, Idaho: 2001

Hobbs+Black Associates, Architect

Mountainside Home - Relocated Barn Complex

Hailey, Idaho: 2000

Damian Farrell Design Group, Architect



Woodlot Home



Pond View Home



Onominese Retreat

accomplishments continued...

2.12 INTERPRETER: the projects in this section were completed by Paul in his role as design principal for the structural consultant and engineer of record, *SDI-Structures*. They illustrate Paul's commitment to faithfully interpreting the vision of architects. Some of the visions are highly personal design statements, and many are visions for the home.

Homes:

No architecture is more personal than that of the home, and none as varied in style, construction, and vision. A successful home design is likely to be an equally successful partnership between an architect and a client. Nowhere is this more clearly illustrated than in the widely acclaimed Onominese Retreat, built on Michigan's Leelanau Peninsula, which in print and in honors always credits the architect and owner together as a team (Architectural Record, AIA Michigan, Wood Design Awards). With an intimate team like this, the structural consultant might be expected to be an invisible third party, but the design team in its generosity invariably credits the structural insights that contributed to the home's realization.

Paul views it as a special honor and an extension of a special trust when he's asked to contribute to homes like the Onominese Retreat, or any of the hundreds of other custom homes and additions he's been asked to engineer.

In wood, steel, masonry, concrete, and glass, and in more styles than can be named, Paul works with owners and architects to interpret their visions in a faithful way, respecting the trust that's been extended to him.



Ann Street Residence

accomplishments continued, select homes...

Cul-de-sac Home

Novi, MI

Victor Saroki Architects

Woodlot Home

Ann Arbor, MI

Lincoln Poley, AIA, Architect

Windy Crest Home

Ann Arbor, MI

Angelini Associates, Architect



Cobblestone Home

Ann Street Home

Birmingham, MI

McIntosh Poris Associates, Architect

Lake Home

Holland, MI

AMDG Architects

Pond View Home

Ann Arbor, MI

Meier Group Architects



Windy Crest Home

Burns Park Home

Ann Arbor, MI

Studio Z Architecture

Bungalow

Ann Arbor, MI

Michael Klement, AIA, Architect

Onominese Retreat

Leelanau, MI

Besty Williams & Cornelius Alig, Architect/Owner

River View Home

Harsens Island, MI

Ekocite Architecture



South Hall

accomplishments continued...

It's part of any architect's nature to take pride in their work, hoping to see it realized to the fullest of its potential. Small, humble jobs bear the proud ownership of their designers no less than widely acclaimed or published work. Paul is pleased that his firm is entrusted to interpret the designs of all kinds of architects, and pleased that when acclaimed architects (including two Pritzker Award winners) come to the midwest, they trust SDI-Structures to render the structural components of their visions.

Broad Art Museum, 2012

Zaha Hadid Architects
London, England



Science Institute West Entry

Aikens Commons / South Hall, 2011

Hartman Cox Architects
Washington, DC

Michigan Stadium Expansion, 2010

Kallmann McKinnell & Wood Architects w/ HNTB
Boston, Massachusetts

Science Institute West Entry, 2008

Dan Hoffman/Studio Ma
Phoenix, Arizona



Brookside School

Academy Studios, 1999

Rafael Maneo Architect
Madrid, Spain

Michigan Stadium Signage, 1998

Venturi, Scott Brown Architects
Philadelphia, Pennsylvania

Light Lab Frame and Ice Pavilion, 1997

Steven Holl Architects
New York, New York

Brookside School Trusses, 1996

Peter Rose & Partners
Boston, Massachusetts



Observatory Restoration



Science Institute Repair



Kingswood School Repair

accomplishments continued...

2.13 LEADER: Paul has led his firm SDI-Structures to a prominent place among structural consultants. His leadership extends beyond his professional practice to AIA Michigan and numerous community organizations.

Cranbrook:

Paul has earned his position as a trusted advisor to the Cranbrook Educational Community through years of careful work with the dozens of exceptional buildings on the historic Eliel Saarinen designed campus. The many brick and stone masterworks that comprise the campus led American architecture into modernism seventy years ago. They now require special care to maintain them for the use and enjoyment of future generations. Paul contributes the structural expertise that is essential to ongoing efforts to identify architectural elements that are at risk, and provide for their repair and restoration. As an architect he is an active advocate for the buildings and their history as he works closely with contractors and artisans.

In addition to preserving the school's past, Paul is actively engaged in realizing its future through the engineering of new buildings, working both with contractors and the many prominent architects that the school engages. The life of the community of course entails the display of art, plenty of art, and Paul frequently consults on the preparation of installations and exhibitions, both indoors and out.

accomplishments continued...



Notre Dame Hockey



Michigan Football



Michigan State Basketball

NCAA Athletics:

Paul has led his firm to a role as a prominent consultant in the design of collegiate sports venues. The projects of SDI-Structures include refurbished ice hockey arenas for Cornell and Michigan, as well as the Compton Family Ice Arena, the new home of Notre Dame's Fighting Irish Hockey and a premier regional hockey training center. SDI has been a team member for both in-state rivals Michigan and Michigan State, who have entrusted the firm with basketball and football projects totaling over \$400 million in construction. SDI's work is not limited to revenue sports. It has engineered collegiate athletic facilities for sports ranging from gymnastics to wrestling to field hockey and soccer.

accomplishments continued...



Broderick Tower Renovation



Eastern Market Shed 3 Renovation



Merchants Row Renovation

Detroit:

Historic Woodward Avenue is the spine of the Motor City and a legendary showcase for its automotive heritage. Paul's involvement in engineering the renovation of entire blocks of Woodward are a contributor to Downtown Detroit's ongoing revitalization. The Lofts of Merchants Row alone provide 157 new homes on Woodward. The developments is encompassed within two blocks of former department stores, and is now the home to many of Detroit's new community of young professionals. Across the street, four more buildings are currently being renovated with Paul's engineering support in a block terminated at Grand Circus Park by the stunning 34 story, \$50 million, David Broderick Tower renovation, which will bring another 100 homes to Woodward Avenue. The engineering support that he and his team at SDI-Structures provide has been integral to many other projects throughout the city including numerous charter schools, MOCAD (the Museum of Contemporary Art - Detroit), and renovations to the vast facilities of the vital Eastern Market.

Paul is trusted by architects, contractors, developers and city officials to evaluate the city's historic, at-risk structures and to chart the path to restoring their structural integrity and bring them to new life.



Academic Center



Jenks Schools



Math Science School

accomplishments continued...

AIA Michigan:

We live in a fast changing world, and we practice in a fast changing profession. Architects are our culture's primary proponents for the value of design, so as public policy forms and as culture transforms, architects become leaders by example whether they choose to or not. The AIA is the greatest single tool available to architects who arrive at the conclusion that their profession must lead. This is the philosophy that energizes Paul's commitment to the AIA.

Paul's approach to governance is one of simple, direct problem solving: identifying impediments to progress in raising the profile of the profession, and eliminating them. His strong grasp of the wonkish mechanisms of governance: policies, budgets, plans and bylaws; which he gained over many years of volunteer non-profit service, provides him with the tools needed to craft an organization better able to serve its members and advance the profession.

Paul has initiated coordinated sponsorship efforts between AIAMI committees, chapters, and affiliated organizations, and the 2012 non-dues revenue plan that he authored and implemented yielded its targeted 20% net increase in conference revenue from 2011 to 2012.

AIA Michigan Vice President / President Elect, 2013

AIA Michigan Sponsorship Chair - current

AIA Michigan Finance Committee – current

AIA Michigan Executive Search Committee - current

AIA Michigan Treasurer, 2012

AIA Michigan Secretary, 2011

AIA Michigan Executive Committee, 2011-2013

AIA Michigan Bylaw Revision Committee, 2010-2011

AIA Michigan Membership Committee, 2010

AIA Michigan Leadership Transition Committee, 2010

AIA Michigan Board Member of the Year, 2009

AIA/ARE Structural Seminars, 2009 to present



4 Eleven Lofts



Towsley Children's House



Wells Hall

accomplishments continued...

AIA Huron Valley:

AIA Michigan Huron Valley Director, 2008 -2012

*Lead Juror 2011 Student Exhibition
(University of Michigan, Taubman College)*

Lawrence Technological University

*Adjunct faculty, 2006 to Present:
Structures 4
Advanced Structures*

Green Building Certification Institute:

LEED Accredited Professional BC+D

Habitat for Humanity of Huron Valley:

*Board Member 1999-2005, and 2009 to present
Finance Chair, 2011
Treasurer, 2010
Vice President, 2009
House Leader 1997, 1999, 2001, 2003, 2005
Executive Search Committee 2004
Washtenaw County Co-Chair:
2005 Jimmy Carter International Work Project*

Interfaith Hospitality Network, Washtenaw County:

*Vice President, 1996
Treasurer, 1995
Board Member 1993 -1996*

Ann Arbor Downtown Citizen Advisory Council:

Member: 1993 – present

Center for Faith and Scholarship, Ann Arbor:

Interim Treasurer - 2008

2.2 HONORS and AWARDS

Occasionally engineering is flashy, with a jaw dropping effect... but generally it's the role of the structural consultant to serve in the background. In many cases a job is most successful when it appears to have been realized effortlessly; away from the forefront of awareness. It's gratifying when the spark of engineering innovation is recognized, but also gratifying when the vision of the architect is rendered in structural form in way that makes the vision visible, and the engineer invisible.

2.21 INNOVATOR: serving as the principal for the structural consultant SDI-Structures, Paul's projects have earned the following notable honors and awards recognizing innovation.

American Institute of Steel Construction, Chicago, IL
2012 IDEAS² Award, *Robert B. Aikens Commons*

Masonry Institute of Michigan, Southfield, MI
2012 "M" Award, *Robert B. Aikens Commons*

Masonry Institute of Michigan, Southfield, MI
2012 Masonry Award for engineering, *Aikens Commons*

American Institute of Steel Construction, Chicago, IL
2010 IDEAS² Award, *Lamar Corporate Headquarters*

American Institute of Steel Construction, Chicago, IL
2004 Engineering Award of Excellence,
Merit Award, *S. T. Dana Building*

AIA Michigan, Detroit, MI
2008 Honor Award, *Lamar Headquarters*

AIA Grand Valley, Grand Rapids, MI
2008 Honor Award, *Lamar Headquarters*



Lamar Corporate Headquarters



Skandalaris Center



Davenport University



Recreation Center

honors and awards continued...

2.22 INTERPRETER: Paul's efforts to interpret the visions of the architects he serves have helped to earn Paul and his clients the following recognitions for architectural excellence.

AIA Huron Valley, Ann Arbor, MI
2012 Honor Award, *Ferndale Public Library*

AIA Huron Valley, Ann Arbor, MI
2012 Honor Award, *Burns Park Home*

Detroit Home Awards, Spring 2012, Detroit, MI
Two residences honored

Ohio Historic Preservation Office, Columbus Ohio
2012 Ohio Historic Preservation Award, *Standart Lofts*

Detroit Home Awards, Spring 2011, Detroit, MI
Lakefront residence honored

Masonry Institute of Michigan, Southfield, MI
2011 M Award, *Skandalaris Center*

Michigan Historic Preservation Network, Lansing, MI
2011 Preservation Award, *Durant Hotel*

Detroit Home Awards, Spring 2010, Detroit, MI
Three residences honored

Masonry Institute of Michigan, Southfield, MI
2010 M Award, *Al Glick Fieldhouse*

ENR/McGraw Hill, New York, NY
Top Sports Project of 2010, *Michigan Stadium*



Renaissance High School



Highland Library



Fifth Avenue Building

honors and awards continued...

AIA Michigan, Detroit, MI
2005 Honor Award, *Onominese Retreat*

Masonry Institute of Michigan, Southfield, MI
2005 M Award, *Jaguar Novi*

North American Wood Award - Halifax, Canada
2003 Citation, *Onominese Retreat*

AIA Michigan, Detroit, MI
2002 Honor Award, *Ann Street Residence*

Michigan Historic Preservation Network, Lansing, MI
2003 Preservation Award, *Jonah Sculpture*

Michigan Historic Preservation Network, Lansing, MI
2001 Preservation Award, *Schlenker Building*

2.23 LEADER: Serving as a leader in his firm, he has brought success and recognition to his business. Serving as a leader in his community, recognition has come as well.

Image Journal, Seattle
December 2010 Artist of the Month

AIA Michigan:
2009 Board Member of the Year

Habitat for Humanity of Huron Valley:
2005 Board Member of the Year

Interfaith Hospitality Network, Washtenaw County:
1996 Board Member of the Year

2.3 BOOKS and PUBLICATIONS

If something is worth learning it's worth remembering, and conversely, things that aren't worth remembering probably aren't worth learning in the first place. A lot of architects have trouble remembering what they once learned about structures, so it's particularly important for educators of architects to keep a focus on what's worth remembering and to give those things the roots they need to grow. Whether in the classroom or on the job, we're all learning, and on a good day teaching about structures can help keep an eye on what's important.

2.31 INNOVATOR: the following publications feature projects that illustrate Paul's engineering innovation.

Modern Steel Construction, May 2012 Chicago, IL
Robert B. Aikens Commons honored

Masonry Edge, 2012 Volume 7, Number 4, MI
Robert B. Aikens Commons honored

Details, Technology and Form
Princeton Architectural Press, 2012
Lamar Corporate Headquarters featured

Modern Steel Construction, May 2010 Chicago, IL
Lamar Corporate Headquarters honored

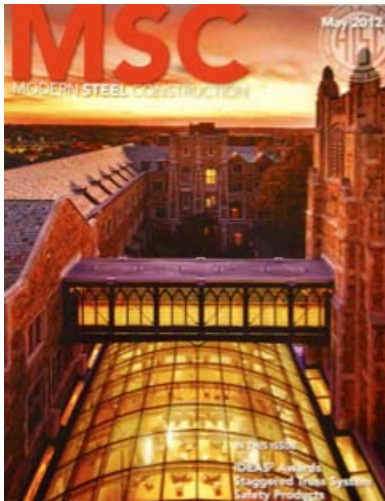
Modern Steel Construction, January 2008, Chicago, IL
Authored Cover Article



Modern Steel Construction

The article that Paul authored on the Lamar Corporate Headquarters earned the cover of Modern Steel Construction's January 2008 issue, an issue devoted to designing for serviceability.

Engineers like to think of serviceability as practical performance, and the editors of the American Institute of Steel Construction's premier publication found the Lamar project's astounding 125 foot cantilever to be an excellent case study in performance. It was Paul's innovation and leadership that put the building through a sophisticated battery of modeling and analysis during design and then through equally rigorous testing and monitoring during construction. Those efforts allowed the owner, architect, and construction team to realize a striking structure that performs to the highest levels of user satisfaction.



Modern Steel Construction



Architectural Record



ASCE Journal of Performance

books and publications continued...

Architectural Record, December 2007, New York, NY
Lamar Headquarters featured

... in addition to numerous publications, Paul has presented the Lamar Corporate Headquarters to audiences at:

- Lawrence Technological University
- The Detroit Institute of Arts
- Ann Arbor Street Art Fair
- Glen East Seminar, Mount Holyoke College
- AIA Michigan Design Retreat, Torch Lake

Journal of Performance of Constructed Facilities, VA
Technical Paper on Lamar Headquarters

Shock And Vibration Journal, #17, Blacksburg, VA
Technical Paper on Lamar Headquarters

World Architecture News, July 2007, London, England
Lamar Headquarters featured

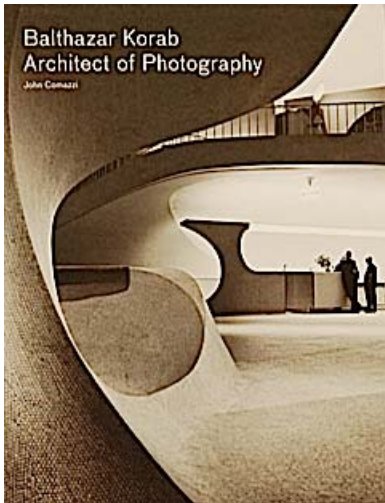
Southern Accents, Nov 2007, Birmingham, AL
Richmond Residence featured

Modern Steel Construction, April 2004, Chicago, IL
S.T. Dana Building Honored

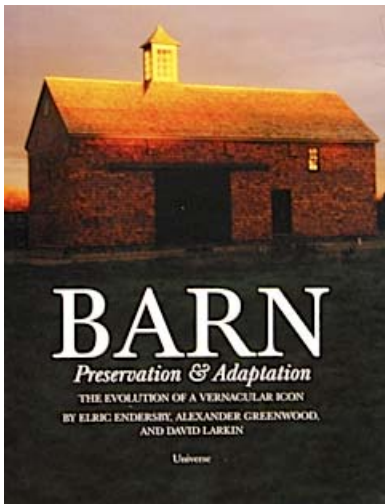
CAM Magazine, October 2004, Bloomfield Hills, MI
S.T. Dana Building featured

Barn Preservation & Adaptation, Rizzoli, New York
Mountainside Residence featured

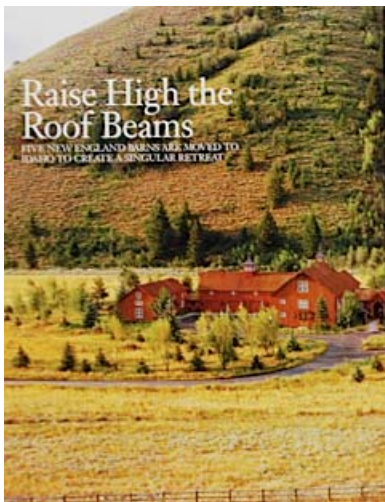
Architectural Digest, June 2003, Boone, IA
Mountainside Residence featured



Balthazar Korab



Barn Preservation & Adaptation



Architectural Digest

books and publications continued...

2.32 INTERPRETER: the following publications feature projects that succeed in part through Paul's commitment to rendering the architect's vision in structural form.

Balthazar Korab, Architect of Photography,
2012 Princeton Architectural Press

Two Steven Holl Projects Photographed:

*Cranbrook Science Institute Light Lab &
Cranbrook House of Ice Pavilion*

Detroit Home Awards, Spring 2012 Detroit, MI
Two residences honored

Detroit Home Awards, Spring 2011 Detroit, MI
Lakefront residence honored

Detroit Home Awards, Spring 2010, Detroit , MI
Three residences honored

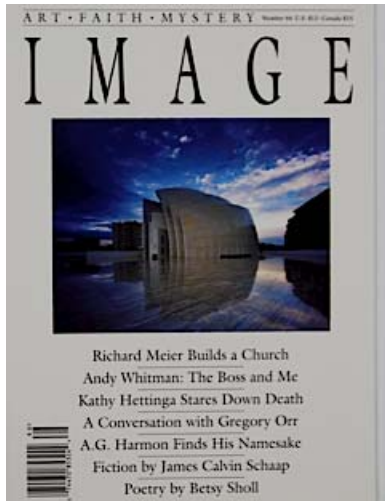
Structure Magazine, Sept 2011, New York, NY
Broad Art Museum cited

Masonry Edge, 2011 Volume 4, Number 4, MI
Michigan Stadium featured

Masonry Edge, 2011 Volume 4, Number 4, MI
Al Glick Fieldhouse featured

ENR/McGraw Hill, Top Sports Project of 2010, NY
Michigan Stadium honored

Concrete Monthly, March 2010, Fall River, WI
Broad Art Museum cited



IMAGE



Details, Technology, and Form



Dwell

books and publications continued...

Image Journal, Volume 66, Fall 2010, Seattle
Authored Cover Essay

Paul is author of the essay featured on the cover of IMAGE journal's Fall 2010 issue. IMAGE, a nationally recognized arts quarterly, features work exploring the relationship between faith and creativity. His essay on Richard Meier's Jubilee Church in Rome explores the role of expectation in the experience of architecture, as well as the tension that exists between architecture as experienced in the life of its community and architecture as critiqued in the public eye.

Detroit Home, Spring 2009, Detroit, MI
Three residences honored

Metal Architecture, January 2009
Skandalaris Center honored

Dwell, January 2006, San Francisco, CA
Re-cycler's House featured

Perspectives on Design, Panache Press, Plano TX
Three residences featured

Dream Homes-Michigan, Panache Press, Plano TX
Residence featured

Wood Design Awards 2003, Halifax, Canada
Onominese Retreat honored

Architectural Record, July 2003, New York, NY
Onominese Retreat featured

Old House Interiors, Oct/Nov 2003, Gloucester, MA
Bungalow residence featured

Dwell, October 2002, San Francisco, CA
Ann Street Residence featured

4.0 EXHIBIT LIST

- 3.01 **Eli and Edythe Broad Art Museum**
Zaha Hadid Architects: London, England
Michigan State University - 2012

- 3.02 **Robert B. Aikens Commons**
Hartman-Cox Architects: Washington DC
University of Michigan Law School - 2011

- 3.03 **Michigan Stadium Expansion**
Kallmann McKinnell & Wood Architects: Boston, MA
University of Michigan - 2010

- 3.04 **Lamar Corporate Headquarters**
Integrated Architecture: Grand Rapids, MI
Hudsonville, Michigan - 2006

- 3.05 **Mountainside Residence**
Damian Farrell Design Group: Ann Arbor, MI
Hailey, Idaho - 2000

- 3.06 **Academy Studios**
Rafael Manero Architects: Madrid, Spain
Cranbrook Educational Community

- 3.07 **Firwood Street Community**
Habitat for Humanity of Huron Valley
Ypsilanti, MI

EXHIBIT 3.01

Eli and Edythe Broad Art Museum : Michigan State University
Zaha Hadid Architects, London, England - Design Architect
Integrated Design Solutions, Troy, MI - Architect of Record
Paul Dannels AIA- Project Principal for Structural Engineer of Record, SDI-Structures

Published (articles): Structure Magazine, Concrete Monthly
Published (news): Architectural Record, New York Times
(Completion Fall of 2012)

I have personal knowledge of the nominee's responsibility for the project listed above. That responsibility included the following: the nominee was largely responsible for structural design, and the nominee's firm executed the structural design.

Anthony J. Greco, PE, President, SDI-Structures

Zaha Hadid's Broad Art Museum opened in the fall of 2012, having already served as an incubator for engineering innovation throughout its development and construction. Under Paul's engineering leadership the project has been the scene of industry-leading development of self-consolidating concrete mix designs, as well as innovative BIM applications for the sharing of structural models.





Broad Art Museum, Zaha Hadid Architects, 2012, continued



Broad Art Museum, Zaha Hadid Architects, 2012, continued

EXHIBIT 3.02

Robert B. Aikens Commons: University of Michigan Law School, 2011
Hartman Cox Architects, Washington DC – Design Architect
Integrated Design Solutions, Troy, MI – Architect of Record
Paul Dannels AIA- Project Principal for Structural Engineer of Record, SDI-Structures

Published: Modern Steel Construction, Masonry Edge
Honored: American Institute of Steel Construction, Masonry Institute of Michigan

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Anthony J. Greco, PE, President, SDI-Structures

This ambitious expansion to the much revered gothic quadrangle and of the University of Michigan Law School includes a new limestone and granite-clad faculty building, a new skybridge linking libraries to offices, a new elevator suspended in an existing academic tower, and the radiant transformation of a long unused courtyard into a skylit student commons which has become the heart of the Law School community.





Robert B. Aikens Commons, Hartman Cox Architects, 2011, continued



Robert B. Aikens Commons, Hartman Cox Architects, 2011, continued

EXHIBIT 3.03

Michigan Stadium Expansion: University of Michigan, 2010
Kallmann McKinnell & Wood Architects, Boston MA – Design Architect
HNTB, St Louis, MO - Architect of Record
Paul Dannels AIA- Owner: Structural Engineer of Record for Foundations and Enclosure

Published: ENR, Masonry Edge, CAM Magazine
Honored: ENR/McGraw Hill

I have personal knowledge of the nominee's responsibility for the project listed above. That responsibility included the following: the nominee's firm executed the structural design of foundations and exterior enclosure.

Anthony J. Greco, PE, President, SDI-Structures

In 2010 two new sideline sky towers holding club seats, spectator suites, press facilities, and other fan amenities were added to Michigan Stadium, cementing the reputation of the 109,000 seat "Big House" as the premier collegiate football venue in the country. Paul has led his firm to a reputation for notable success in the engineering of collegiate sport facilities.





Michigan Stadium Expansion: Kallmann McKinnell & Wood / HNTB, 2010, continued



Michigan Stadium Expansion: Kallmann McKinnell & Wood / HNTB, 2010, continued

EXHIBIT 3.04

Lamar Corporate Headquarters: Hudsonville, Michigan, 2006
Integrated Architecture; Grand Rapids, MI - Architect of Record
Paul Dannels AIA- Project Principal for Structural Engineer of Record, SDI-Structures

Published: Architectural Record, Modern Steel Construction, Details Technology and Form
Honored: American Institute of Steel Construction, AIA Michigan, AIA Grand Valley

I have personal knowledge of the nominee's responsibility for the project listed above. That responsibility included the following: the nominee was largely responsible for structural design, and the nominee's firm executed the structural design.

Anthony J. Greco, PE, President, SDI-Structures

The unprecedented 125 foot reach of the Lamar Corporate Headquarters office cantilever was not limited by engineering ambition or ability - it was limited by egress travel distances. Trusted by an owner and architect with determined vision and focus, Paul assembled and directed a team of engineering specialists working in uncharted territory to craft this structure of striking beauty and serene stability.





Lamar Corporate Headquarters, Integrated Architecture, 2006, continued



Lamar Corporate Headquarters, Integrated Architecture, 2006, continued

EXHIBIT 3.05

Mountainside Home: Hailey, Idaho, 2000

Damian Farrell Design Group; Ann Arbor, MI – Architect of Record

Paul Dannels AIA- Project Principal for Structural Engineer of Record, SDI-Structures

Published: Architectural Digest, Barn Preservation and Adaptation

I have personal knowledge of the nominee's responsibility for the project listed above. That responsibility included the following: the nominee was largely responsible for structural design, and the nominee's firm executed the structural design.

Anthony J. Greco, PE, President, SDI-Structures

Five neglected New England barns were transported to the mountains of Idaho to create a family home that assured the endangered barns a new life as treasured pieces of history. But the Idaho landscape endures seismic forces, snow loads, and avalanche threats that New England farmers could never have envisioned. Working with the owner, the architect, and an exacting Building Department, Paul developed a system of concealed structural panels and hidden fasteners that allow the original barn to show inside and out. The details developed here have since been adapted in Paul's work across the country.





Mountainside Home, Damian Farrell, 2000, continued



Mountainside Home, Damian Farrell, 2000, continued

EXHIBIT 3.06

Cranbrook Academy Studios, Bloomfield, Michigan, 1999

Rafael Maneo; Madrid, Spain – Design Architect

David Osler Associates; Ann Arbor, MI – Architect of Record

Paul Dannels AIA- Project Principal for Structural Engineer of Record, SDI-Structures

I have personal knowledge of the nominee's responsibility for the project listed above. That responsibility included the following: the nominee was largely responsible for structural design, and the nominee's firm executed the structural design.

Anthony J. Greco, PE, President, SDI-Structures

The Cranbrook Academy Studio Expansion was Rafael Maneo's second project completed in North America and was completed with the local office of David Osler, FAIA. Maneo's expansion to Saarinen's iconic Academy Art Museum provides generous north-lit workspace to MFA students in metal work, ceramics, and fibers.





Cranbrook Academy Studios, Rafael Maneo, 1999, continued



Cranbrook Academy Studios, Rafael Manó, 1999, continued

EXHIBIT 3.07

Firwood Street Community - Ypsilanti, MI
Habitat for Humanity of Huron Valley
Paul Dannels, House Leader and Huron Valley Co-Chair:
2005 Jimmy Carter International Work Project

I have personal knowledge of the nominee's responsibility for the project listed above. That responsibility included the following: construction of two homes was under the direction of the nominee.

Anthony J. Greco, PE, President, SDI-Structures

Habitat for Humanity of Huron Valley has built over a dozen homes in the Firwood Street community of Ypsilanti, Michigan, filling in gaps in the neighborhood fabric and enhancing the quality of life for Habitat homeowners and their neighbors. Paul co-chaired efforts when Firwood Street was a hosting site for the 2005 Jimmy Carter International Work Project, and was house leader for the home below. It's one of two home builds he has led in the neighborhood, and one of five he has led in the County. Paul continues to provide incisive board leadership and financial oversight for the vibrant Huron Valley Habitat operations.



4.0 REFERENCES

- 4.01 **T. Lee Becker, FAIA**
Partner
Hartman-Cox Architects: Washington DC
- 4.02 **Chuck Bultman, AIA**
Sole Proprietor
Charles Bultman Architect: Ann Arbor, MI
- 4.03 **Larry Flynn**
Industry Marketing Manager
American Institute of Steel Construction, Chicago, IL
- 4.04 **Craig Kiner**
Associate
Zaha Hadid Architects: London, England
- 4.05 **Dan Pitera, FAIA**
Executive Director
Detroit Collaborative Design Center
University of Detroit Mercy School of Architecture: Detroit, MI
- 4.06 **Derek Roberts, Associate AIA**
Facility Consultant
Jacobs Engineering: Washington DC
- 4.07 **Mehdi Setareh, PhD, PE**
Professor
College of Architecture and Urban Studies
Virginia Tech: Blacksburg, VA
- 4.08 **David Teare, AIA, LEED AP**
Senior Project Control Manager
Administrative Controls Management: Ann Arbor, MI
- 4.09 **Ben Tiseo, FAIA**
President
Tiseo Architects Inc.: Livonia, MI
- 4.10 **Andrew Zago**
Andrew Zago Architects
Visual Studies Coordinator
SCI-Arc: Los Angeles, CA

