

WELCOME!



Structural Insulated
Panel Association

SelectSIPs

EXPO

2024

A Better Way to Build

January 29th – 31st – Embassy Suites – Phoenix, Arizona

Thank You
2024
Sponsors!!



SelectSIPs EXPO 2024

A Better Way to Build

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TUESDAY & WEDNESDAY BREAKFAST



TUESDAY LUNCH



DINNER & AUCTION



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**Structural Insulated
Panel Association**

The background of the slide is a photograph of a building under construction. The walls are covered in brown structural insulated panels (SIPs). Bare tree branches are visible in the foreground and background against a clear blue sky. A red roofline is partially visible on the right side. A solid red horizontal bar is positioned above the main title text.

SIPA Building Excellence Awards

A dark grey rectangular box with a thin white border is centered on the slide, containing the text for the annual meeting.

**SIPA Annual Meeting
2024**

Trail-Blazing Judges for a Cutting-Edge Building Product

Archie Landreman – Mass Timber Specialist

Archie is an active and participating member of the American Institute of Architects, Association of Licensed Architects, Construction Specifications Institute, Forest Products Society, Structural Engineers Associations, National Frame Builders Association, Structural Building Component Association, Structural Insulated Panel Association and collaborates with the Forest Products Lab in Madison, Wisconsin and several universities.



Christian Kaltreider – Building Energy Efficiency Research Engineer at the Pacific Northwest National Laboratory

Christian Kaltreider is a Building Energy Efficiency Research Engineer with 15 years of prior experience working in energy efficiency, renewable energy, and residential construction. His primary work at PNNL includes the development of guidance on building science best practices for builders and contractors, housed on the Building America Solution Center. Before joining PNNL he worked as an engineering consultant on energy savings performance contracts, net-zero energy projects, and high-performance HVAC design efforts.



John W. Meyer – Founder & Chief Operations Officer, Innova

John is founder and COO of Innova, an innovative ESG company specializing in design, deployment and measurement of low carbon, sustainable solutions. Innova solutions include concrete free foundations, sustainable concrete, zero energy builds, rammed earth structures and renewable micro-grids. For these solutions and more, Innova provides stakeholders predictive outcomes with ongoing assessment and validation of proven-sustainable-best-practice designs and technologies.



Affordable Housing



Affordable Housing

Affordable SIP House Birmingham AL

WINNER
High Performance

SIP wall thickness: 5" EPS

SIP roof thickness: 8.5" EPS

HERS: 56

ACH50: 0.87

kBtu/sq.ft./year: 32.2

HVAC System:
15.2 SEER2 ducted system



EXTREME PANEL
TECHNOLOGIES

Navigate Affordable Housing Partners
Extreme Panel Technologies
Goldwire
Birmingham, AL



navigate

AFFORDABLE HOUSING PARTNERS



Affordable Housing

WINNER

SIP Tiny House Castlewood SD

CLASSIC

SIP wall thickness:
5 5/8" EPS

SIP roof thickness:
9 5/8" EPS

HVAC: Ductless mini-split
heat pump

Sta-Plus Steel Door w/Low-
E Glass, Gerkin Low-E Vinyl
windows.

LED lighting, tankless water
heater, passive solar on
west side of home.



Enercept
Not Quite Tiny Home
Castlewood, SD



Agricultural



Agricultural

SIP Farm Multi Shop Cottonwood MN

RUNNER-UP

Classic

SIP wall thickness: 8 ¼”
SIP roof thickness: 8 ¼”

HVAC:
in-floor heating and mini-
split systems

LED lighting throughout



Extreme Panel Technologies
Neuman Farm Shop
Cottonwood, MN


EXTREME PANEL
TECHNOLOGIES

Agricultural

SIP Kitty Community Rescue Tyler MN

WINNER

Classic

SIP wall thickness:
5 ½ " EPS Foam

SIP roof thickness:
11 7/8" EPS Foam

SIP floor thickness:
11 7/8" EPS Foam

HVAC: A single zone
18,000 BTU ductless
inverter.

Vector Invision
windows R-value: 3.70
U value: 0.27



Enercept SIPs
Windy Kitty Comm Rescue
Tyler, MN



Commercial/Industrial/
Institutional over 10,000 sq. ft.



Commercial over 10,000 sq. ft. **RUNNER-UP**

SIP Campus Building Berthound CO

Classic

Building's envelope, HVAC
+ lighting design = 29%
energy cost savings
per

LEED Silver Certification



Premier Building Systems

Northern Water Utility Campus Expansion – HQ Bldng
Berthound, CO



Commercial over 10,000 sq. ft.

WINNER

SIP School and Community Center Atmautluak AK

Classic

SIP Wall thickness:
8" typical at walls
12" at angled walls
8" at soffits below the school.

SIP roof thickness: 12"

HVAC: Hydronic heating from a boiler building. 2nd floor interior air handling units in Mechanical rooms.

Triple-pane windows:
U= 0.30 BTU/Sf.



Premier Building Systems

Joann A Alexie Memorial K-12 School
Atmautluak, AK



Commercial/Industrial/
Institutional under 10,000 sq. ft.



Commercial under 10,000 sq. ft. **RUNNER-UP**

SIP Headquarters Aspen CO

Classic

SIP roof thickness: 10"

High performance
programmable multi zone
HVAC



Premier Building Systems
Aspen Distilling
Aspen, CO



Commercial under 10,000 sq. ft.

WINNER

Classic

SIP Research Center Cape Shirreff Antarctica

SIP wall thickness: 6" (3813 FT2 Wall Panels)

SIP roof thickness: 10" (2932 FT2 Roof/Floor Panels)

SIP floor thickness: 10"

SIP partitions thickness: 4"

Full rooftop solar powered system
Exteriors are stainless steel

LEED lighting



Premier Building Systems
NOAA Cape Shirreff Galley & Bunkhouse
Cape Shirreff Antarctica

PREMIER
SIPS
STRUCTURAL INSULATED PANELS

Multifamily



Multifamily

SIP Twin House Mapleton ND

RUNNER-UP

Classic

SIP wall thickness:
5 ½ " EPS Foam Core

HVAC:
95% AFUE York Natural
Gas Forced air furnace
with dual-zones.

Energy-saving materials:
Andersen 100-series
windows with 0.32 U
Value;
Jeld Wen insulated walk
doors;
Clopay R-19 Overhead
Garage Doors.



Enercept
Mapleton Twin Homes
Mapleton, ND



Multifamily

SIP Apartment Building Longmont CO

WINNER

Classic

SIP wall thickness: 6 ½"
SIP roof thickness: 12.25"

3 bedroom units are about \$50 to heat and cool per month (in the CO winter), which is great for 1300 sq ft.

HVAC: dwelling unit, high performing mini-split systems

Low emitting LED lighting, on demand hot water, all electric

Solar Ready



Premier Building Systems
Sunset Apartments
Longmont CO



Multifamily

Zero Energy SIP Apartments Kansas City KS

WINNER
High Performance

SIP wall thickness:
4-5/8" EPS Core

HERS: 45 and 47

ACH50: 1.75

HVAC: Air Source Heat
Pumps

Solar Panel: Installation
planned for 2024

All units are Energy Star
MF v.1.1 Certified, EPA
Indoor Air PLUS Qualified,
and Zero Energy Ready -
(All Certs are pending)



The Murus Company
Davidsons Landing
Kansas City, KS



Renovations



Renovations

Revamped SIP House San Pedro CA

RUNNER-UP

Classic

SIP wall thickness:
8" EPS

SIP roof thickness:
12" EPS

HVAC:
5-zone mini-split heat
pump

Windows:
 $U=0.34$, $SHGC=0.25$

LED lighting

Energy star appliances



Premier Building Systems

Nico's House
San Pedro, CA



Renovations

SIP Cabin Lake Hackensack MN

WINNER

Classic

SIP wall thickness:
5-1/2" EPS

SIP roof thickness:
11-7/8" EPS

HVAC:
Propane air furnace
Basement – in-floor heat



Enercept

Camp David on Baby Lake
Hackensack, MN



Residential Single Family
Homes over 3,000 sq. ft.



Homes over 3,000 sq. ft.

SIP Casita and Shop Scottsdale AZ

RUNNER-UP

Classic

SIP wall thickness: 6" EPS

SIP roof thickness: 10" EPS

HVAC: Mini-splits – HRV

On Demand Water, Energy Star Appliances, LED Lighting, LOW/NO Voc finishes.

Triple pane windows

Solar Panels



Premier Building Systems
Scottsdale Compound
Scottsdale, AZ



Homes over 3,000 sq. ft.

High Vaulted Ceiling SIP House Culpeper VA

WINNER

Classic



SIP wall thickness and core material: 6" EPS

Roof thickness 10" EPS

ACH50: 0.9

HVAC :
15+ SEER 2.0 ton 10 Kw
Aux Heat, variable speed
air handler

15+ SEER 2.5ton 10 Kw
Aux heat, variable speed
air handler

Solar: 11kW



T&M Contracting
And
Construction Services, LLC
SHM Modern
Culpeper, VA



Homes over 3,000 sq. ft. Honorable Mention

Ultra-Efficient SIP House East Hampton NY

High Performance



SIP wall thickness:

6-1/2" EPS

R-value: 23

SIP roof thickness:

12-1/4" EPS

R-value: 45

HERS: 16

ACH50: 1.19

HVAC:

Air Source Heat Pumps

U-value: 0.28

SHGC: 0.3

Solar Panel: 10.4 kWh

Full SIP envelope and strong high performance with low hardscaping and minimum cement



The Murus Company

Thanet Way

East Hampton, NY



Homes over 3,000 sq. ft.

Geothermal SIP House Lennox SD

RUNNER-UP
High Performance

SIP wall thickness and
core material:
6-1/2", 5-1/2" EPS Foam 1
lbs.

HERS: 41
ACH50: 1.60

HVAC :
Geothermal ground
source heat pump forced
air and radiant floor heat.

Energy Star
2018 IECC
EPA Indoor Air Plus



Energy Panels Structures
Merrigan Residence
Lennox, SD



Homes over 3,000 sq. ft.

WINNER
High Performance

ZeroEnergy Timberframe SIP House Rockwood PA

SIP wall thickness:
5-1/2" EPS

SIP roof thickness:
11-7/8" EPS

HERS: -16

ACH50: 0.88

HVAC:
Geothermal heat pump

Solar: 19.2kW

Windows: 0.11
U-factor: 0.10



Energy Panels Structures
Tinkey Residence
Rockwood, PA



Residential Single Family
Homes under 3,000 sq. ft.



Homes under 3,000 sq. ft.

SIP Sustainable House Thermal CA

RUNNER-UP

Classic

SIP wall thickness:

6" EPS

SIP roof thickness:

12" EPS

All low VOC finishes

Low water need vegetation

Solar ready/solar installed.

On demand hot water

Achieved Title 24
requirements



Premier Building Systems
Pueblo Unido 3 Bed Prototype
Thermal, CA

PREMIER
SIPS
STRUCTURAL INSULATED PANELS

Homes under 3,000 sq. ft.

WINNER

Modern SIP House Remington VA

Classic

SIP wall thickness and core material: 6" EPS with 19/32 skins

SIP roof thickness and core material: 10" EPS with 19/32 skins

ACH50: 0.87

HVAC:
16+ SEER, HSPF 9.0, with a 10 Kw aux heat
AprilAire model #8100
ERV Broan 50 CFM
bathroom exhaust fans



T&M Contracting
And
Construction Services, LLC
Lakota House
Remington, VA



Homes under 3,000 sq. ft.

SIP ECO-Friendly Desert House Placitas NM

RUNNER-UP

High Performance

SIP wall thickness: 8 1/4"
wall panels, EPS foam

SIP roof thickness and
core material: Traditional
truss roof, open cell spray
foam cap, batt insulation.

HERS: 37 (solar panel not
included in this rating)

ACH50: 1.09
kBtu/ft2: 4.41

HVAC:
Air-source heat pump
Water Heating



Premier Building Systems

8 Ocate Ct
Placitas, NM



Homes under 3,000 sq. ft.

Super-Efficient ADU SIP House Seattle WA

WINNER
High Performance

IP wall thickness: 6" EPS

SIP roof I: 10" EPS

HERS: -2

ACH50: 1.07

HVAC: Sanden CO2 radiant
floor heat/hot water.
Fantech ERV

Cork 2" exterior insulation,
triple pane U-15 windows

Solar Panel: 16w



Premier Building Systems
GRAMADU
Seattle, WA

PREMIER
SIPS
STRUCTURAL INSULATED PANELS

Residential Single Family
Homes under 900 sq. ft.



Homes under 900 sq. ft.

Compact SIP House Dewey AZ

RUNNER-UP

Classic

SIP wall thickness:

6" EPS

SIP roof thickness:

6" EPS

HVAC: Mini Spit

Energy efficient appliances

LED lighting



Premier Building Systems

SW Energy Saver (Garavetto / Miller Residence)

Dewey, AZ



Homes under 900 sq. ft.

Net-Zero Ready ADU SIP Los Altos Hills CA

WINNER

Classic



SIP wall : 6" EPS

SIP roof I: 10" EPS

HERS: CF2R & CF3R CalCerts
Title 24 energy modeling for
net zero ready

ACH50: Title 24 energy
modeling for net zero ready
HVAC:2 mini split systems –
heat and cool



Premier Building Systems
Hilltop Drive ADU
Los Altos Hills, CA

PREMIER
SIPS
STRUCTURAL INSULATED PANELS

2023 Overall and Best in Competition



Homes over 3,000 sq. ft.

ZeroEnergy Timberframe SIP House Rockwood PA

WINNER
High Performance

SIP wall thickness:
5-1/2" EPS

SIP roof thickness:
11-7/8" EPS

HERS: -16

ACH50: 0.88

HVAC:
Geothermal heat pump

Solar: 19.2kW

Windows: 0.11
U-factor: 0.10



Energy Panels Structures
Tinkey Residence
Rockwood, PA



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WE'LL BE Next...

Select **SIPs** **EXPO**



A Better Way to Build

JANUARY 27th, 28th & 29th / San Juan, Puerto Rico

*The Awards submission deadline will be
18 December 2024*



Structural Insulated
Panel Association