Advancing Prefabrication 2020
Single-Trade | Multi-Trade | Modular

126 Expert Speakers Including:

Amy Marks
Event Ambassador & CEO
XSite Modular

Mike Barrett
GFEM Strategic Program Manager
Intel

Bradley Lukanic
CEO
CannonDesign

Jose Luis Blanco
Partner McKinsey & Company

Pete Murray
President - Manufacturing Skender

Ewelina Wozniak-Szpakiwicz
CEO DMDmodular

Marty Corrado
General Superintendent
JE Dunn Construction Company

John Beddow
CEO Guerdon Modular Buildings

Tim McNew
Director Factory Blue

Anthony Perez
VP Architecture CallisonRTKL

Wesley Baker
Vice President of Manufacturing TDIndustries

Kelli Lubeley
BIM Program Manager Cupertino Electric

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### Workshops Series

**Wednesday, February 5**

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<th>Technical Workshops Series</th>
<th>Technology Workshops Series</th>
<th>Skills Workshops Series</th>
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<td><strong>Defining &amp; Executing an Offsite Construction Program for a Given Market</strong></td>
<td><strong>Exploring the Realistic Application of Automation to Streamline Factory Operations</strong></td>
<td><strong>Achieving Success with Wood Prefabrication &amp; Mass Timber Framing</strong></td>
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<td>When beginning to strategize how your team can best deliver to a certain market or incorporate prefabrication into your projects as an owner, it is not easy to realize maximum opportunity on day one. Many teams find that they have a bad experience, and reticence to fail fast, fail forward has meant that not enough teams are persisting to truly achieve the benefits of saving time, cost, and quality on projects. Therefore, this workshop will guide owners and contractors branching into new sectors through:</td>
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<td>• Taking a model of your typical building types and analyzing the potential to create standardized, repeatable components across all projects: What can we start with that is going to prove the business case for offsite construction with our team and maximize chances of success?</td>
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<td>• Ensuring you have a strong supply chain to deliver your vision and be confident that your chosen partners have the capabilities you are seeking</td>
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<td>• Establishing a new workflow with teams and leveraging collective experience to quickly and effectively unite the common goal and optimize construction at every stage</td>
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<td>• Underlining how best practices can be taken from early projects and scale up throughout your bottlenecks to build a more extensive, successful program</td>
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<tr>
<td><strong>Mike Barrett</strong>, GFEM Strategic Program Manager, <strong>Intel Corporation</strong></td>
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<td><strong>Rob Crotty</strong>, AVP Capital Productivity &amp; Strategy, <strong>HCA</strong></td>
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<td><strong>Exploring the Realistic Application of Automation to Streamline Factory Operations</strong></td>
<td>While levels of automation are growing in all construction technology at the moment, the full potential is yet to be realized. However, with the prefabrication and modular facility offering higher levels of standardization and control over the environment, it is clear that the potential application here could be extensive if done right. This workshop will therefore look to understand the current success <strong>Z Modular</strong> is seeing by combining a patented scalable modular construction system with advanced BIM modeling and automated machinery. This workshop will explore various topics, including:</td>
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<td>• How a scalable advanced structural system can be utilized to reduce construction costs and drive automation across the design and fabrication functions</td>
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<td>• Creating a collaborative design platform for partners to come together in the early stages, and how this can streamline the flow of data across departments to achieve a digital thread from design through installation</td>
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<td>• Exploring the different types of automation currently available for offsite construction facilities and how we determined the best solutions for our team</td>
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<td>• Leveraging advanced mechanical systems and robotics in your facility: What are the benefits and the challenges being realized and how can this be connected to your BIM platforms to achieve full manufacturing efficiency?</td>
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<td><strong>Rich Rozycki</strong>, SVP, <strong>Z Modular</strong></td>
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<td><strong>David Warne</strong>, VP Design &amp; Architecture, <strong>Z Modular</strong></td>
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<td><strong>Achieving Success with Wood Prefabrication &amp; Mass Timber Framing</strong></td>
<td>The rising innovation with prefabrication has not only inspired teams to seek ways to do more with less, it has also opened the door to working more sustainably. In line with this, the use of wood and mass timber industrialization have been increasingly common on projects in recent years, and so this workshop with lift the lid on the opportunities and successes you team can also achieve. Through a series of spotlights, case studies, and summary panel discussion, you’ll explore:</td>
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<td>• The buzz and excitement in the industry around the potential for new systems within high-rise buildings and why more owners and architects are driving this approach</td>
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<td>• What the different options are to build with wood and on what types of projects it makes most sense</td>
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<td>• How this approach alters the up-front planning and design of a building, and the common hurdles teams must overcome to succeed with the most complex mass timber framing</td>
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<td>• Working closely with installation teams to ensure the right level of expertise to meet quality expectations in the field and build right, first time</td>
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<td><strong>Mark Bartlett</strong>, Regional Director, <strong>Woodworks</strong></td>
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<td><strong>Bart Whatley</strong>, Principal, <strong>Delineate Studio</strong></td>
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<tr>
<td><strong>Michael Ratliff</strong>, Designer, <strong>Texas Timber Frames</strong></td>
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**Session 1**

**8-10am**

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**10-11am**  **Refreshment Break**
Workshops Series | Wednesday, February 5

Technical Workshops Series

A Novice's Guide to Starting Your Own Prefabrication Facility
While there are many teams who have taken strides to establishing and accelerating the capabilities of their teams to pursue more advanced prefabrication, there remain many teams who are yet to introduce this technology to their company. They are beginning to recognize that they will soon be left behind if they do not set up facilities and develop team capabilities to follow in the footsteps of industry leaders.

With this intention, this workshop will teach you how to:
- Broaden acceptance of changing processes with the existing workforce to embrace prefab and ensure they lead your firm into the future
- Develop the right mentality of the entire team to view prefabrication from the manufacturing perspective, rather than construction in a different location
- Ensure your design, technology and operations teams are armed with the tools and systems to support expansion into more complex modular systems
- Set up a facility to streamline production and material flow, and bypass common mistakes made by contractors starting out their prefab journey

Joseph Lansdell, President, Poynter Sheet Metal
Zach Piercy, Project Manager, Poynter Sheet Metal
Stephen Hildebrand, Project Engineer Intern, Poynter Sheet Metal

Technology Workshops Series

Developing Platforms & Standards to Maximize the Potential for BIM & Collaborative Design

BIM is an integral component of the design process to develop accurate, coordinated assemblies and streamline information down through production. However, with problems remaining around the interoperability of systems and many partners unable to keep up with the extensive technical skills required for teams to excel on projects, the use of this technology remains a persistent problem for many. Therefore, as an industry, we must begin to standardize expectations and skills for further success.

With this intention, this workshop will:
- Discuss what elements make up a good model, and how this can be translated into standards to align all partners in design intent and technology capabilities
- Identify the problems of using BIM and Revit software for prefabrication drawings and what tools and systems are out there to help connect all systems together
- Explore how cloud collaboration platforms can facilitate collaborative modeling when the right commitment, agreements, and security is set up with the team
- Underlining the skills necessary to maintain and develop cloud software platforms and how teams must fund and manage this to ensure the right information is clearly communicated to production teams

Kelli Lubeley, BIM Program Manager, Cupertino Electric
Chris Alexander, Corporate BIM Manager, Cupertino Electric

Skills Workshops Series

Applying Lean Principals to Streamline Planning & Achieve JIT Delivery to the Jobsite

Lean is a term common to the construction industry now, yet while many realize what this concept is, principles are commonly poorly translated in practice. This workshop will therefore guide teams step by step through the application of lean principles to prefabrication specific workflows to enhance team collaboration and streamline planning and production efforts.

- Identifying the principles of lean and how these revolutionized our prefabrication workflows and efficiencies
- Mapping out how P4 can support effective prefabrication and ensure all teams are on the same page from preconstruction through install
- Underlining how concepts can feed into production facilities, both centralized and project specific, and how these principles can effectively guide shop set up and material flow

Perry Thompson, Lean Executive Director, Parsons Electric
Steve Stone, VP, Archkey Solutions

1-2pm Lunch Break
**Workshops Series | Wednesday, February 5**

### Technical Workshops Series

**Optimizing Project Set-up & Design for Prefab & Modular Components & Assemblies with the Entire Project Team**

Just as planning and designing for prefabrication is very different from traditional construction methods, planning and designing for modular adds a further layer of complexity to the process. With more and more teams now wanting to move forward with this new method of construction, we must also possess the skills to guide our designers through a new workflow.

Therefore, this workshop will focus on:

- Busting myths around the restrictions of modular and prefabrication on designers and rethinking the process in terms of opportunities to buy your team in
- Revealing common mistakes made by designers at the start of their journey with modular and how we learned from these to build workflows for success
- Thinking backwards: Revealing the technical design standards and workflows that designers must understand to succeed and how you can develop standards and educational materials to help more partners engage with a new way of building
- Exploring the different materials and assembly processes that need to be designed for to allow contractors to roll straight into production with minimal change

**Jennifer Cull**, Associate Principal, **Beck Architecture**

**John Reich**, Senior Preconstruction Manager, **The Beck Group**

**Mike Kraase**, Integrated Project Leader, **The Beck Group**

### Technology Workshops Series

**Creating Work Packages That Tie to the BIM Model to Create a Single Source of Knowledge Throughout Production & Install**

The potential of BIM and other Design Tools is great to support a project team's success. However, in many cases the people and process foundation have yet to be established in a manner that can fully leverage the technology. This can result in a breakdown in communication and smooth workflows between Design and Construction.

Therefore, this session will explore how leading trade contractors are identifying how Advanced Work Packaging (AWP) principles can help bridge that gap.

In this workshop, you will learn:

- The principles of Advanced Work Packaging and how to break down designs into manageable sections for your team
- How to develop packages in BIM with VDC teams and how these can tie to the schedule to create more transparency over work complete during construction
- Walking through the process step-by-step from set-up through install to demonstrate how this principal can be applied to any project to streamline operations

**Steve Rose**, Corporate Director – Prefab & Packaging, **Rosendin Electric**

**Eric Abbott**, Area Superintendent, **Rosendin Electric**

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**4pm**  End of Workshop Day
Offsite Tours Program 2020

In addition to the main conference and workshops program, Advancing Prefabrication will be offering an entire series of offsite tours for you and your team to choose from. Whether wanting to visit a mechanical, electrical, wailing contractor, or even modular facility, we have a tour for you!

Choose between 9 bespoke tours that will guide you through every step of the set-up, streamlining, operations and output of these leading production facilities to see how different firms are beginning to find harmony between traditional construction and new manufacturing methodologies.

Every attendee will be able to visit a maximum of 4 tours across the 2 days, which will be charged at $150 per visit.

Your Hosts for 2020

**TDIndustries**
TDIndustries delivers a comprehensive approach to Mechanical Construction and Facility Services. Working primarily in the Texan and Arizona markets, since 1946, TD has provided innovative design and performance of world-class engineered systems which serve healthcare facilities, hotels, schools, mission critical, and industrial complexes.

- **Novice** - This tour is specifically catered to those who are starting out on their prefabrication journey, setting up a new facility, or are in the early years of developing their offshore construction capabilities.
- **Advanced** - If you are an experienced team looking to further streamline and optimize operations to make you a market leader, attend this tour to discuss strategies to make this happen and push the fold even further.

**Visit TDIndustries on Wednesday 8-10.30am or 1.30-4pm, or Thursday 8-11am or 12-3pm. Only 60 places available per visit, sold on a first come, first served basis.**

**Factory Blue**
Factory Blue is the sister company to The Beck Group, an integrated offsite manufacturing and fabricaton company that specializes in pods, headwalls, panel systems and elevators. Explore how a GC has branched into setting up their own prefabrication facility and succeeding in also becoming an industry provider.

**Visit Factory Blue on Wednesday 11am-1pm or 2-4pm. Only 60 places available per visit, sold on a first come, first served basis.**

**Baker Triangle**
BakerTriangle has been involved in the drywall and plaster industry for four decades. They are now one of the largest, most creative and innovative wall and ceiling contractors in the nation. Their facility tour will therefore focus on developing prefabricated wall panels and exterior systems.

**Visit Baker Triangle on Wednesday 4.30-6.30pm. Only 50 places available, sold on a first come, first served basis.**

**Modular Power Solutions**
Sister company to Rosendin Electric, our tour partners last year, Modular Power Solutions is the leader in mission-critical modular components in North America. They manufacture and install modular skids and enclosures that provide power supply systems to enterprise, colocation and wholesale data centers.

Rosendin Electric is the largest design-build specialty electrical contractor in North America. With years of global experience in building large-scale data center electrical solutions, Rosendin Electric has delivered more than $2.5B of mission-critical work.

**Visit Modular Power Solutions on Thursday 9-11am or 12-2pm. Only 50 places available per visit, sold on a first come, first served basis.**
# Tour Timetable at a Glance

## Pick the Right Tour for You:

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<tr>
<th>Wednesday, February 5</th>
<th>Thursday, February 6</th>
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<tr>
<td><strong>TDIndustries</strong></td>
<td><strong>TDIndustries</strong></td>
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<tr>
<td>8-10.30 am: <strong>Novice</strong> Level</td>
<td>8-11 am: <strong>Novice</strong> Level</td>
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<tr>
<td>11 am-1 pm</td>
<td>9-11 am</td>
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<tr>
<td>1.30-4pm: <strong>Advanced</strong> Level</td>
<td>12-3 pm: <strong>Advanced</strong> Level</td>
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<tr>
<td>2-4 pm</td>
<td>12-2 pm</td>
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<tr>
<td><strong>Factory Blue</strong></td>
<td><strong>Modular Power Solutions</strong></td>
</tr>
<tr>
<td>4.30-6.30 pm: Baker Triangle</td>
<td>End of Conference</td>
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## Top Tips for Your Visit!

1. **Please check timings of your bus departure.** If you are attending one of our tours, you will have received a confirmation email from Madison last week. Please check the timings carefully and arrive promptly at the correct time. We will not be able to wait for latecomers!

2. **Tour registration & meeting point is at the entrance to the Draft bar in the Sheraton Hotel.** You will be taken to your bus, and returned, to this point.

3. **Please look at the logos on your badge to determine which tours you are on.**

4. **Please note - our tours are in high demand and you can no longer swap your pass, or give the tour to a colleague.** If you do not have the appropriate tour logo printed on your badge, you will not be permitted on the bus or into the tour facility.

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## WHAT AM I ATTENDING?

Your badge might have some of the following symbols printed on it. Please see below for each symbol means.

- **WS**: Post-Conference Workshop Day
- **TD**: TD Industries Tour
  - TD1: **Novice Level** Wednesday 5th of February
  - TD2: **Advanced Level** Wednesday 5th of February
  - TD3: **Novice Level** Thursday 6th of February
  - TD4: **Advanced Level** Thursday 6th of February
- **FB**: Factory Blue Tour
  - FB1: **TD1** Wednesday 5th of February
  - FB2: **TD2** Wednesday 5th of February
- **MP**: Modular Power Tour
  - MP1: **TD3** Thursday 6th of February
  - MP2: **TD4** Thursday 6th of February
- **BT**: Baker Triangle Tour
  - **TD1** Wednesday 5th of February

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