



Exclusive full day Workshop Presented by Amy Kulka-Marks President & Owner **Xsite Modular, USA**

6th Annual

MUDULARS PRECAST CONSTRUCT

3RD — 5TH MAY 2017 | SOFITEL BANGKOK, SUKHUMVIT, THAILAND

WHO IS ATTENDING



















































































































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"Prefabrication isn't a subculture anymore, it's a necessity."

- Builder Magazine

EVENT OVERVIEW

The prefabrication and modular industry is growing rapidly and is a major segment in the construction industry. Today, almost all construction projects contain some degree of offsite manufacturing. There is a plethora of anecdotal evidence to demonstrate the benefits that offsite construction brings, inclusive of faster delivery, better quality, lesser cost and safer working site.

The opportunity for greater utilisation of offsite manufactured components across the industry is significant, however, there is mass number of projects that continues to use traditional construction methods. This clearly shows that there lacks sufficient and conclusive evidence as to the value of offsite construction approach amongst other challenges.

With this in mind, **6th Annual Modular and Precast Construction** by Trueventus is back with more technical and in depth discussion. This year's event features some of the industry's most highly regarded thought leaders, showcasing avant-garde projects, exploring innovative technology, best practice sharing and addressing the challenges in the prefabrication industry. Join us on this unique power packed journey that will make are focusing on providing actionable perception that you can take home with you and implement!

6 REASONS TO ATTEND

- **Being** up to date on the growing trends in building manufacturing
- **Overcoming** challenges faced in project delivery of modular construction
- **Knowing** how to manage your project well from start to finish- Effective Project Management
- Familiarising with new innovation in off-site construction- Technology Transfer
- One on one meeting opportunity with key decision makers- Make Deals
- Benchmarking & networking with key leading experts and thought leaders globally

WHO SHOULD ATTEND

This event is designed for but not limited to

- C-Level/GMs/MD/Director/ Manager Construction Management
- Project Management
- Health and Safety
- Designing
- Operations
- Procurement
- Facilities Management
- Software Technology

From the following industries:

- Owners
- Construction
- Developers
- Contractors
- Architecture & Planning
- Building Materials
- Transportation / Trucking
- Civil Engineering
- Precasters
- Real Estate Consultants
- Government Agencies
- Manufacturers
- Suppliers

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RATEC – founded in 1994 in Hockenheim, Germany – is trendsetter and innovation leader in the development and production of magnet-based formwork systems for the manufacturing of precast concrete products.

With over 20 years of experience, RATEC delivers its products to customers in over 72 countries worldwide today. From the switchable magnetic box up to complete formwork solutions for automated circulation plants, battery formwork systems and concrete pumps, RATEC has decisively shaped and influenced precast concrete production up to today. Besides standard solutions, individual formwork systems for (almost) all requirements are developed according to customer needs.

Furthermore, with upcrete * technology RATEC has developed an innovative procedure to pump self-compacting concrete into closed molds, that has set new standards for the vertical production of precast concrete elements up to 3-D room modules. Thus, it offers new – previously unknown - possibilities of prefabrication and provides impetus for those who plan and design the buildings of the future.

www.ratec.org



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FEATURING PRESENTATIONS AND CASE STUDIES BY DISTINGUISHED EXPERTS:



Amy Marks
President and Owner
XSite Modular, USA



Paco Conde Fernández Co-founder Compact Habit Offsite Modular Buildings, Spain.



Nicholas Reynolds Vice President, Vertical Construction Red Sea Housing, UAE



Dr Frank Prochiner Chief Executive Officer **Munitech Gmbh, Germany**



Prof Lau Joo Ming Former Advisor Housing Development Board (HDB),Singapore



Owen Wee Board Member Singapore Green Building Council, Singapore



Oliver Tittmann Managing Director Xcube, China



Topi Laiho Country Manager Peikko Singapore Pte Ltd, Singapore



Andrew Lian
Director
Alda Consultants, Australia



John Lucchetti Hydraulic Section Manager, Principal Wood & Grieve Engineers, Australia



Raymond Chan Project Director Teambuild, Singapore



Kerry London Dean, Research and Innovation University of South Australia



Damien Crough General Manager **Imaginext, Australia**



Dominic Wright
Business Development Director
Generation 3D LLC, UAE



Mathieu Meur Managing Director Meinhardt Façade Technology (S) Pte Ltd, Singapore



Mark Tanner Principal Greenarc International, Thailand



Er Lim Chong Sit Managing Director, Civil Engineering Robin Village International Pte Ltd, Singapore



Thierry BrezacProject Director **Dragages, Singapore**



Rob Sanchez
Head of Corporate VDC/BIM
China Construction (South Pacific)
Developm ent Co. Pte. Ltd.,



Joshua Hunt (Hunter) Director Wanhua Modular Projects, China



Aurélie Claurex
Head of Innovation & Sustainability
Bouygues Batiment International,
France



Jon Sealey Design Director Marques and Jordy, Thailand



Hans Christian Roloff Business Development Manager Dextra Manufacturing, Thailand



Daniel Spencer Regional Manager - Australia **FRAMECAD Ltd, New Zealand**

3RD — 5TH MAY 2017 | SOFITEL BANGKOK, SUKHUMVIT, THAILAND

Day 1: Wednesday, 3rd May 2017

0800 Registration & Coffee

0845 Welcoming address by Amy Marks President and Owner Xsite Modular, USA

0900 Session One: A breakthrough in mindset - The off-site paradigm shift Amy Marks President and Owner Xsite Modular, USA

0945 Session Two: Getting it right: Selecting the right construction project delivery method

1030 Morning refreshments

1045 Speed networking

1115 Session Three: Panel Discussion: Breaking down challenges in the design and fabrication

Dr Frank Prochiner Chief Executive Officer Munitech Gmbh, Germany

Nicholas Reynolds Vice President-Vertical Construction Red Sea Housing, UAE
Owen Wee Board Member Singapore Green Building Council, Singapore

1200 Session Four: Winning strategy- Gaining financial pillars for modular projects

1245 Networking luncheon STREAM 2 OFF-SITE TECHNOLOGY STREAM 3 PRECAST ADVANCEMENT STREAM 1 **VERTICAL PREFAB BUILDING** 1400 Session One 1400 Session One 1400 Session One Session One Affordable hotels through prefabrication: Opportunities and lesson learnt- An international perspective Innovative ways to deliver affordable hotel products in tackling increasing demand for budget and mid-market hotels A global overview of the current state of Capitalising on off-site construction: The Modular Design: The Singapore Story • Defining modular design in a modern city growing trends in building manufacturing • Identifying key drivers pushing constant innovation for high profitability • Emphasising opportunities in off-site building jobs as an alternative construction • Adopting cautious approach for all levels of construction activity Aurélie Claurex Head of Innovation & Sustainability Bouygues Batiment International, France Identifying what modularised and design factors to consider when design a precast building • Learning how to reduce direct and indirect bad emission Owen Wee modular design and construction Highlight on the opportunities and challenges Board Member Singapore Green Building Council, Singapore of innovative construction technique in the Nicholas Reynolds Vice President-Vertical Construction Red Sea Housing, UAE 1445 Session Two Advanced Prefabrication Technology and Precast Construction Technologies This presentation will focus on the philosophy, principles, techniques and practical applications of utilizing Advanced Prefabrication and Precast Construction technologies. It covers some examples of prefabrication technology used for Housing and Prefinished Prefabricated Volumetric Construction (PPV/C) technology for Nursing Homes, and applications. 1445 Session Two Building Lean- Fast tracking construction using BIM for PPVC modules 1445 Session Two Introducing the world's first completely mobile factory producing industrial precast The Patented Mobile Field Factory - Globalising Forecasting successful BIM adoption in PPVC Recognising best practice to take advantage on the unique characteristics of integrated industrial precast using plug & play construction for all terrains engineering modeling and analysis software • The unique Unicon connecting system producing modular play & play buildings Reviewing the first large scale Unicon project completed Revealing latest development of BIM in associated (PPVC) technology for Nursing Homes and applica-tions of advanced information technology (IT) and to complex design of construction New Challenges Ahead – Munitec China's first modular high rise buildings in China Dr Frank Prochiner Chief Executive Officer Building Information Modeling (BIM) as a key tool for Virtual Design and Construction (VDC) to be used throughout the construction process. **Prof Lau Joo Ming** Former Advisor Munitech Gmbh, Germany Housing Development Board (HDB), Singapore 1530 Afternoon refreshments 1530 Afternoon refreshments 1530 Afternoon refreshments 1600 Session Three: Case Study Technology transfer: Gearing 3D printing for digital fabrication 1600 Session Three 1600 Session Three Adopting the best concrete technology for high-end building façade Modular micro: Micro apartments model using modular construction Exploring the best method to bring modern architecture for micro-apartment • How to take a flexible approach in 3D capable Adopting innovative design technology and Adopting innovative design technology and energy performance Resolving complex design challenges, improves facilities? architecture for micro-apartment Understanding the demand and suitability of prefabricated structure for micro modular Designing conceptual modular that embraces the city's changing demographic of single and double person household Er Lim Chong Sit Managing Director, Civil Engineering Robin Village International Pte Ltd, Singapore Scrutinising the actual material and method Introducing large gantry style system or robotic arms as key component of 3D printer Dominic Wright Business Development Director Generation 3D LLC, United Arab Emirates constructability, maximising energy efficiency and increasing building security Custom made solutions and intelligent use of industrialised production techniques Mathieu Meur Managing Director Meinhardt Façade Technology (S) Pte. Ltd. 1645 Session Four: Case study VDC and BIM for DfMA in Singapore residential project Overview on Singapore VDC/BIM for DfMA Showcasing key benfits in using full implementation 1645 Session Four 1645 Session Four Standard pre-design prefabrication: Alternative solution of going through lengthy custom New building technology: Evaluating the quality and availability of prefabricated

of VDC and BIM in Pre-Fabricated Bathroom

Showcasing key benefits in using full implementation

of VDC and BIM in PPVC

Rob Sanchez Head of Corporate VDC/BIM

China Construction (South Pacific) Development

Units

1730 End of day one

Co. Pte. Ltd., Singapore

Michael Karuna

1730 End of day one

Teambuild, Singapore

design process

structure

1730 End of day one

• Explaining the vital issues in innovative construction

Showcasing leading technologies for design

Showcashing leading technologies for design goal in precast
 Comparing off-site and on-site structure quality
 Thierry Brezac Project Director
 Dragages, Singapore

Refining production platform by adopting

modular standardisation to apply common design specifications

Aligning the engineering stages from conceptual

Adjuly the Highlething stages from Conceptual design through basic engineering to detailed design
 Recognising the trends on replicating modular in term of standardising design concept
 Raymond Chan Project Manager

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Day 2: Thursday, 4th May 2017

0800 Registration & Coffee

0845 Opening address by Amy Marks President and Owner Xsite Modular, USA

0900 Session One: Achieving construction efficiency with effective project management from start to end Kerry London Dean Research and Innovations University of South Australia

0945 Session Two: Panel Discussion: A contractor's view: Determine how to reduce risk with the use of off-site construction

Amy Marks President and Owner Xsite Modular, USA

1030 Morning refreshments

1045 Speed networking

1115 Session Three: Exploring the future of modular property developers and builders Mark Tanner Principal GreenArc, Thailand

1200 Session Four: Integrating virtual reality into modular construction

1200 Session Four: Integrating virtual reality into	modular construction				
1245 Networking luncheon					
STREAM 1 VERTICAL PREFAB BUILDING	STREAM 2 BUILDING MATERIAL	STREAM 3 PRECAST ADVANCEMENT			
1400 Session One From traditional general contractor to Modular Building System (MBS) solution provider: Accelerating speed and cost effectiveness Creating new business opportunities and optimising on existing with MBS business model Discussing the eMii (industrialised integral modular building) system Synergising the relationship between different actors for overall process including design, manufacturing, transport, stack and connect Paco Conde Fernández Co-founder Compact Habit Off-site Modular Building, Spain	1400 Session One Light gauge steel framing for modular application - Australian case study • The benefits of Light Gauge steel • Ease of design with FRAMECAD software • The speed of construction for modular application – case study in Australia Daniel Spencer Regional Manager - Australia FRAMECAD Ltd, New Zealand	1400 Session One Embracing modular, automated and systemised construction methods • Analysing the possibility of minimising human error by auto-manufacturing • Keeping high standard through modernised auto-manufacturing concepts • Integrating flexible manufacturing system (FMS) and computer aided-design (CAD)			
1445 Session Two: Case Study Prefab affordable housing: How to meet the best quality structure? • A detailed investigation on the mismatch between affordable material and affordable method of construction • Identifying best practice in delivering significant financial return for low cost houses • Complete identification of geographical and demographical factor in selecting the best method for affordable housing Damien Crough General Manager Imaginext, Australia	1445 Session Two: Case Study The next wave of using shipping container sized steel modules as building blocks in construction • Taking advantage of the key benefits of shipping containers • Meeting building needs across diverse residential, industrial, commercial, and retail applications • Using shipping containers as building blocks in the construction of restaurants, offices, apartments and more Oliver Tittmann Partner and Managing Director XCube Engineering and Prefabrication, China	1445 Session Two Efficient precast construction for residential buildings in Asia: Case studies from India and Thailand The continuing urbanization of Asia's landscape and the increasing prosperity of its population are accelerating the demand for new residential buildings. To meet this challenge, contractors have to improve their ways of designing and building structures, looking not only at cost-reduction, but instead putting a higher emphasis on speed and efficiency. Hans Christian Roloff Business Development Manager Dextra Manufacturing, Thailand			
1530 Afternoon refreshments	1530 Afternoon refreshments	1530 Afternoon refreshments			
1600 Session Three Lego-style construction: Making PPVC an	1600 Session Three	1600 Session Three: Case Study			

ideal solution for monotony building concept

- Addressing the key challenges faced in using PPVC
- Maximising key enablers of prefabrication for complete buildings with volumetric modules and other subassemblies in driving cost effective construction
- Optimising supply chain process specifically for PPVC adoption

Andrew Lian Director

Alda Consultants, Australia

1645 Session Four

Integrating prefabricated series- Revolutionise the relationship between builder and architect

- Understanding next generation project requirement and blending in uniqueness of luxury projects
- Recognising signicant changes rest upon consume and preference economic trading price variance
- Knowing how to retrospectively apply new system to buildings which have been designed
 Jon Sealey Design Director

Marques and Jordy, Thailand

1730 End of Conference

Building with timber: Prefabricated modules of Cross-Laminated Timber (CLT)

- · Adopting an integrated design to ensure stakeholders collaborate in the early stages
- Overcoming the strength constraint of CLT and conflict of design and modularisation for timber
- Recognising the potential of CLT for high-rise buildings

John Lucchetti Hydraulic Section Manager, Principal Wood & Grieve Éngineers, Australia

1645 Session Four

Light steel framing for residential building-China's Perspective

- Performance of key end use market for utilisation of light gauge steel framing
- What kind and how to installed steel-frame wall with cavity insulation?
- · Taking real advantage of ability to gauge to the load

Joshua Hunt (Hunter) Director Wanhua Modular Projects, China

1730 End of Conference

Session Three: Case Study Building the best joint system for precast construction in tropical countries

- · Latest development in precast concrete connection • The use of shear dowel system that are high in
- tolerance to ensure effective load transfer Scrutinising robust connection component that resilience to seismic events and to avoid collapse
- Topi Laiho Country Manager

Peikko Singapore Pte. Ltd., Singapore

1645 Session Four

Moving towards effective logistics and seamless installation

- · Analysing innovative methods to minimise transportation obstacles
- Exploring the process of supply chain in a modular construction settings
- Active views on future development expectation of compressive planto move to modular

1730 End of Conference

3RD - 5TH MAY 2017 | SOFITEL BANGKOK, SUKHUMVIT, THAILAND

DAY 3: Friday, 5th May 2017

WORKSHOP: STREAMLINING SOPHISTICATED ARCHITECTURES WITH MODERN METHOD OF CONSTRUCTION

A seamless construction pproject delivery is determined by early synchronisation in front-end project coordination. The workshop helps delegates on gaining detailed knowledge on fundamental principle in building manufacturing which focus on standardisation, mechanisation, and automation.

This one day workshop is uniquely crafted for practitioners from different disciplines to gain an in-depth understanding on off-site construction constraints. This includes projections of implementing DFMA for product development that enables concurrent engineering and the associated cost, quality, and delivery benefits, as well as integrating virtual reality into modular construction and project management strategies.

Session 1

Getting the most out of off-site construction - Implementation strategies and guidelines

Building off-site vs on-site requires different thinking, as well as an understanding of how both the approach and process can make a difference in the level of a project's success. This session will explore what it takes to plan and execute an effective modular construction project, from start to finish. Discussion includes:

- Modular design development and integration
- The decision-making process
- The significance of the "module"
- Essential project delivery methods and contract variables
- Responsibilities and scope of work delineation pre-construction phase

Session 2

Assembling Architecture in a Prefabricated World

Design for Manufacturing and Assembly (DfMA), Systems Approach and Elemental Design are changing the way we design and build. Architects, engineers and builders who learn to optimize prefabrication by using these methodologies will reap the benefits of greater productivity, cost certainty and shorter schedules.

Through updating the design process, altering traditional thinking, and changing company culture, AEC firms will be better positioned to collaborate on the next generation of buildings and provide exceptional value to clients.

ABOUT THE WORKSHOP LEADER

AMY MARKS is the President/ Owner of XSite Modular Consulting. XSite is an off-site program manager and prefabrication consulting firm focused on enabling and optimising the use of prefabrication in large complex technology embedded buildings. XSite has some of the largest global companies as their



clients working on projects including high-rise, hi-tech industrial, healthcare, hospitality and mission critical.

Ms. Marks is an Alumna of the prestigious Harvard Business School and a graduate of the University of Florida. She is an industry thought leader and a highly sought after keynote speaker for international conferences on construction. Recently, Amy was appointed by the Government of Singapore to their Panel of Experts focused on Construction and Productivity. Amy is the founder and moderator of the Modern Methods of Construction (MMC) Group on LinkedIn and is trained in CoreClarity to deliver personal development and team dynamics workshops. Amy and her team have worked on six of the seven continents.

PROGRAMME SCHEDULE

0830	Registration and corree
0900	Morning session begins
1030	Morning networking break
1300	Networking luncheon
1400	Afternoon session begins

1530 Afternoon networking break

1730 Workshop concludes

For further details, contact

Michael Karuna

T• +60327750000 ext

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MPA		

Name	Industry
Address	
Postcode	Country
Tel	Fax

ATTENDEE DETAILS

1	Name	Job Title
	Tel	Email
2	Name	Job Title
	Tel	Email
3	Name	Job Title
	Tel	Email
4	Name	Job Title
	Tel	Email
5	Name	Job Title
	Tel	Email

APPROVAL

NB: Signatory must be authorised on behalf of contracting organisation.				
Name	Job Title			
Email				
Tel	Fax			
Authorising Signature				

COURSE FEES

Two day event	USD 1995 per delegate	
Workshop	USD 995 per delegate	
Two day event & Workshop	USD 2495 per delegate	
□ Documentation package: USD 495		
All options inclusive of documentation pack, luncheon and refreshments. BK-IF187		

PAYMENT DETAILS

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	CVC/CW2 This three-digit CVC/CW2 number is printed on the signature panel on the back of the card immediately after the card's account number.							
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REGISTER NOW

Michael Karuna
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Take a Snapshot or Scan and Email us

TERMS & CONDITIONS

- 1. The course fee is inclusive of the event proceedings, materials, refreshment and lunch.
- 2. Upon receipt of the complete registration form, invoice will be issued. Trueventus request that all payments be made within 5 working days of the invoice being issued. Full payment must be received prior to the event. Only delegates that have made full payment will be admitted to event. Clients are responsible for their own banking fees and banking fees will not be absorbed into the booking price.
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