

# Prefabs and Pods in the Construction Industry

## Programme and Registration Brochure

2 November 2006

IMechE, 1 Birdcage Walk, London

[www.imeche.org.uk/events/prefabs](http://www.imeche.org.uk/events/prefabs)



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# Prefabs and Pods in the Construction Industry

The use of prefabricated pods and modules within the construction industry is rising dramatically, as these constructions potentially offer major reductions in costs and time spent onsite. This seminar will address this growing industry by focusing on:

- The pros and cons of using a pre-fabrication and pods in construction
- The design cycle required to make prefabs and pods work
- Integrating the manufacture and installation of pre-fabricated sections and modules into the construction cycle
- The lessons learned off-site – the view of the fabricator
- How well does it work? Case studies from completed projects

## Benefits of Attendance

The seminar will highlight the benefits of using a pre-fabricated solution in the construction industry, addressing the requirements for design, planning installation and integration of both the building fabric elements and the building services systems; and the potential pitfalls of introducing this method of building. It will also offer a forum in which potential future users of pre-fabricated techniques can benefit from the lessons learned by those with recent experience.

## Who Should Attend

This seminar will appeal to Architects, Building Services Engineers, Civil and Structural Engineers, Building Developers, Facilities Managers, Construction Companies and M&E Services Contractors.

## Exhibition and Sponsorship

Why not take this opportunity to display an exhibition stand, or provide inserts about your company in the delegate packs? For more information contact Suzanne Farrell on 020 7973 1316 or email [s\\_farrell@imeche.org.uk](mailto:s_farrell@imeche.org.uk)

## Organising Committee

Rob Boyer

Frankham Consultancy Group

## PROGRAMME

**2 November 2006**

**09.30 Registration and Coffee**

**10.00 KEYNOTE SPEECH**

### PIA and Offsite

*Mary Mitchell, Steering Group, PIA*

- Is offsite new?
- Are there problems with 'new'?
- Does the PIA solve these problems?

**10.10 Versatility of the Modular Building**

*Allen Calcutt, Head of Architecture, Frankham Consultancy Group Ltd*

- Design Parameters
- Programme
- Access / delivery considerations
- Costs

**10.30 Why is there so Little Prefabrication in the UK Residential Construction Market?**

*Roger Ridsdill-Smith, Director, ARUP*

The benefits of manufacture have been proved in other countries' construction industries. Yet the vast majority of residential construction in the UK is still based on

traditional site-based construction methods. Why is this, and will the current enthusiasm for prefabrication fade away as it did after the two previous postwar housing booms, in the forties and the seventies?

**10.50 Discussion**

**11.10 Morning Coffee**

**11.40 Holistic Design for Manufacture and Supplier Chain**

*George Adams, Engineering Director, AMEC*

- Design for manufacture
- Supply chain structure
- Added value

**12.00 A Real Solution for Permanent Healthcare Construction**

*Mike Pitt, Head of Design, PKL Ltd*

- Healthcare construction
- Modular construction
- The modular industry
- A partnering approach
- Designing for offsite

## 12.20 Electrical Services in Offsite Manufacture

*Phillip Redman, Technical Manager, MK Wiring Systems*

- Overview of electrical service issues for pods and prefabs
- Possible electrical service solutions
- Design process implications
- Opportunities for cost and programme time reductions

## 12.40 Discussion

## 13.00 Lunch

## 14.00 The Challenges of Affordable Prefabrication

*Michael May, Executive Director, Southern Space Ltd (part of Southern Housing Group)*

- Reasons for using off site manufacture
- The benefits to a client
- The challenges to the design team
- The way forward to better working with off-site manufacturers

## 14.20 Offsite Manufactured Timber Framed Buildings

*Stephen Napper, Structural Engineer, JTD Timber Frame Ltd*

- Early Design Freeze, compared to traditional build
- Speed of construction
- Sustainable design
- Part L and the implications

## 14.40 Discussion

## 15.00 Afternoon Tea

## 15.30 Development of a Modular Structural Joint for Composite Sandwich Panels

*David Aviram, Managing Director, Geodome Ltd*

- Initial Concept of frameless construction
- The Modular Geodesic dome prototype
- Trials and development of demountable joints
- Potential applications

## 15.50 Use of FRP Composite Materials in Pods and Prefabrication in the Construction Industry.

*David Kendall, Director of Specialist Structures, White Young Green Consulting*

FRP Composite materials provide significant advantages in the construction of structures and components ranging from small pods to complete buildings. This paper explains many of these advantages, demonstrates previous applications and highlights future possibilities.

## 16.10 Discussion

## 16.30 Closing Remarks

## 16.40 End of Seminar

The Programme is subject to amendment

# GENERAL INFORMATION

## REGISTRATION

To register please return the completed registration form with the appropriate remittance. The reduced IMechE member rate is also available to members of the following bodies: RICS, IStructE, RIBA.

## CANCELLATIONS

For a refund of fees (less £25 + VAT admin charge), cancellations must be made at least two weeks prior to the event. Replacement delegates are welcome at any time.

## VENUE

The seminar will be held at IMechE, 1 Birdcage Walk, London SW1H 9JJ. Full details of how to reach the venue will be issued to delegates prior to the event.

## ACCOMMODATION

The Corporate Team in association with the IMechE has arranged special discounted rates at local hotels for delegates. A list of hotels will be forwarded to delegates upon receipt of their registration and payment. Alternatively please contact the Corporate Team directly and quote ID number 8488.

Tel: 0845 6044060 (UK)/ +44 (0) 20 7592 3050 (Int.)

Fax: 020 7828 6439

Email: [events@corporateteam.com](mailto:events@corporateteam.com)

Website: [www.corporateteam.com/events/8488ME](http://www.corporateteam.com/events/8488ME)

## SPECIAL REQUIREMENTS

Please inform Suzanne Farrell of any special requirements (including dietary and access).

## INSURANCE

The organisers do not accept liability for any injuries or losses of any nature incurred by delegates and/or accompanying persons, nor the loss or damage to their luggage and/or personal belongings

## ENQUIRIES

Please address enquiries to the relevant department:

Event enquiries:

Suzanne Farrell Tel: 020 7973 1316

Fax 020 7222 9881

Email: [s\\_farrell@imeche.org.uk](mailto:s_farrell@imeche.org.uk)

## Registration enquiries:

Tina Churcher Tel: 020 7973 1258

Fax 020 7222 9881

Email: [t\\_churcher@imeche.org.uk](mailto:t_churcher@imeche.org.uk)

## Membership of IMechE

Substantial discounts on attending events are available to IMechE Members. For full details of becoming a member of IMechE please contact the Membership Department on 0845 226 9191 Fax: 020 7090 1001

Membership Department

Institution of Mechanical Engineers

1 Birdcage Walk

London SW1H 9JJ

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# Prefabs and Pods in the Construction Industry

**S1079**

**Fax** completed form back to: +44 (0)20 7222 9881  
**Post to:** Registration S1079, 1 Birdcage Walk, London SW1H 9JJ UK  
**Online booking on:** [www.imeche.org.uk/events/prefabs](http://www.imeche.org.uk/events/prefabs)

**REGISTRATION FEES:**

*(Includes attendance to the sessions, lunch, refreshments and a copy of the seminar volume.)*

**Please complete in BLOCK CAPITALS**

Surname \_\_\_\_\_ Date of Birth \_\_\_\_\_  
 Title (e.g. Dr / Mr) \_\_\_\_\_ First Name \_\_\_\_\_  
 Job Title \_\_\_\_\_  
 Organisation / Company \_\_\_\_\_  
 Mailing Address \_\_\_\_\_  
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	FEE	VAT	TOTAL	PAYABLE
IMechE Member	£180.00	£31.50	£211.50	<input type="text"/>
Member of Co-sponsoring Organisation	£180.00	£31.50	£211.50	<input type="text"/>
Non Member	£230.00	£40.25	£270.25	<input type="text"/>
Student / Retired	£50.00	£8.75	£58.75	<input type="text"/>

**EXTRA ITEMS**

Invoice Charging (if applicable)	£10.00	£1.75	£11.75	<input type="text"/>
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**TOTAL** £

**PLEASE DO NOT SEND PAYMENT SEPARATELY FROM THIS BOOKING FORM**

<b>Membership Status:</b> Are you a:		None of these?
Member of IMechE? Please tick	Member of INucE/ a Co-Sponsoring Institution?* Please specify	Please tick <input type="checkbox"/>
Fellow <input type="checkbox"/>	Affiliate <input type="checkbox"/>	
Member <input type="checkbox"/>	Student Affiliate <input type="checkbox"/>	
Associate Member	Other IMechE	
IMechE Membership No. (if applicable):		

Please indicate method of payment  
 Cheque  Credit Card  Invoice  Sterling Draft

Data Protection: The IMechE would like periodically to send you information on events, conferences and publications that you may be interested in. Would you like to receive such information? Yes  No

**LATE REGISTRATIONS:**  
 After 19 October 2006 please phone 020 7973 1258 to confirm the availability of places and then fax a copy of the registration form to +44 (0)20 7222 9881

**PAYMENT DETAILS:**

**By Cheque:**  
 Cheques should be in Sterling and made payable to 'Institution of Mechanical Engineers'

**By Credit Card:**  
 Please charge my Eurocard/ Mastercard/ Visa \* card (\* delete as appropriate)  
 NB Diners Club, American Express and Maestro Cards are NOT accepted

Total amount £ .....

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**INVOICE DETAILS (UK DELEGATES ONLY):**  
 Delegates wishing to be invoiced must provide an order number or the registration cannot be processed and will be returned. If your company does not use order numbers please enclose a formal request for invoicing on your company's letterhead.

A charge of £10 + VAT will be made for each invoice to cover additional administration costs

Order Number .....

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Name and Address for invoicing  
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Invoices are payable on receipt and no alterations to these terms will be accepted.

**PAYMENT BY OVERSEAS DELEGATES:**  
 Overseas delegates may pay by credit card (see above) or by sterling draft drawn on a UK bank. NB The draft MUST accompany this form. And it is the delegate's responsibility to pay bank charges. Please note our bank details:  
 IMechE Current Account, Natwest Charing Cross Branch  
 Sort Code 60-40-05, Acc No 00817767.  
 We regret that we are unable to invoice overseas delegates.

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