



PROGRAMMING IN CONSTRUCTION

Wednesday, 21 May 2008, 5.00pm, Supreme Court Auditorium, Level B2, Supreme Court Building (1 Supreme Court Lane)

The Talk:-

In construction, as in almost every other venture or project, programmes are used to form the framework upon which projects are planned, executed and controlled. They are prepared in a variety of ways and formats depending on the nature of the aspect of a project which is the subject of the programme. Different programme styles and formats are required to serve the different objectives a programme is intended to control. It is a fact that delays to the completion of a project, or delays to the intermediate handover of parts of a project, often give rise to claims that have among the highest monetary values. This seminar will:

1. review the types, styles and formats of these programmes and identify the purposes and individual limitations of each
2. create a greater understanding of the means by which each type of programme in the construction industry is formulated, to explain the thinking, considerations and decisions that are needed in their preparation and to identify the persons that need to be involved in these processes.
3. demonstrate how methods can determine the route of a critical path and how this path can be changed and elements of it modified or eliminated from criticality.
4. review the common clauses related to programming in construction contract documents and their effectiveness, usefulness and practical applicability in administering a contract
5. discuss the consequences and limitations of programme approval and comment on how the extent of such approvals should be limited by the experience and qualifications of those issuing these approvals
6. deal with the reasons and necessity for modifying a programme and the rights of a contractor to so do
7. consider in detail the means by which the contract programme should be used to monitor progress on a project and how the analysis of this monitoring should be used when adjudicating claims for extensions of time
8. deal with the question of "Who owns Float?" with suggestions as to how this controversial question can be dealt with in a manner that is fair to all parties.

The Speaker:-

Mr. Anthony Clifford

Mr. Clifford is a United Kingdom qualified Chartered Engineer and Member of the Institution of Civil Engineers UK with more than 40 years experience at the "sharp end" of construction projects. He started his career working for top consultants Sir William Halcrow and Partners on the design of bridges and hydro-electric schemes before joining contractors to work on site on a variety of major civil engineering projects in the United Kingdom. After more than 15 years working on sites around the United Kingdom with contractors, Mr Clifford commenced his overseas career with Bovis International Ltd. He was Contracts Manager seconded to a local company in Abu Dhabi to run all their contracts. It was followed by 4 years in Malaysia as Project Director and Concession Company Director on the Privatisation of the Greater Ipoh Water Supply Scheme where Bovis acted as Managing Contractor on this BOT project. In 1994 he was transferred to Shanghai to act as Project Director, General Manager and Consortium Director for Bovis on the Da Chang Water Treatment Plant, another BOT water project on which Bovis were in consortium with Thames Water PLC from The United Kingdom. After the Da Chang Project Mr. Clifford remained based in China working on the development and bids for other water related BOT projects throughout the Asia Pacific region. Early in 2001 he was seconded to Messrs CH2MHill to supervise the overall planning of the Changi Water Reclamation Plant in Singapore. This involved creating a master programme linking the activities of the 20 contracts comprising this Sing \$ 2.1 billion project. Over 450 interlinking milestones were established in this complex programme, and these were then written into the various contract documents of each contract to identify phased stage handovers of specific areas of each building to a series of follow-on contractors. Mr. Clifford then assisted in the preparation of the contract bid documents for each of these contracts, concentrating specifically on those sections of those documents relating to programme and the interfacing of activities.

In early 2002, Mr. Clifford established his own consultancy company in Singapore, Messrs International Construction Consultants Pte Ltd. His first assignment was a contract with Messrs CH2MHill to assist in the supervision of the construction of the Changi Water Reclamation Plant, being responsible as Overall Construction Manager for the construction of the Intake Pumping Station and The Solids Treatment Facility of that project, together worth over Sing \$ 1 billion. This assignment was completed in September 2006 following which he undertook another assignment with Messrs CH2MHill to carry out site supervision and programme management on a fast track Wafer Fab project in Woodlands, Singapore.

Mr. Clifford has stayed close to the construction action on site and in particular to ensuring his projects are completed on time. He has been deeply involved in either the creation of the construction programmes for his own projects or in the scrutiny, approval and monitoring of those created by others. He brings his unique hands-on experience in his roles as contractor, consultant and client. He has a strong commercial background and has been involved in contract document preparation in his work with consultants and in the negotiation of contract conditions with consultants, contractors and suppliers on his BOT projects. He has also led teams in the preparation of final accounts and in the preparation, adjudication and finalisation of claims from both the contractor's aspect and from a client's view point when working with consultants and on his BOT projects.

Registrations start at 4.45pm & the talk is estimated to last 1 hour followed by a Q&A session	FEES (includes refreshments & materials, if any)
SCL Members	FREE
Guests of SCL Members, Members of SCL (Malaysia), Members of SCL (UK), NUS Students, Chartered Institute of Building (CIOB), Institute of Engineers Singapore (IES), Institution of Structural Engineers (Singapore Division), Law Society of Singapore, Singapore Contractors Association Ltd (SCAL), Singapore Institute of Architects (SIA), Singapore Institute of Arbitrators (SIArb), Singapore Institute of Planners (SIP), Singapore Institute of Surveyors and Valuers (SISV)	S\$60.00
Others	S\$80.00



PROGRAMMING IN CONSTRUCTION

Wednesday, 21 May 2008, 5.00pm, Supreme Court Auditorium, Level B2, Supreme Court Building (1 Supreme Court Lane)

Please return the registration form below, together with your cheque, if applicable, made payable to "Society of Construction Law (Singapore)", "c/o INTELLITRAIN PTE LTD, 3 Raffles Place #07-01 Bharat Building S048617" or Fax to (65) 63299699.

REGISTRATION, REFUND & CANCELLATION POLICY

1. Places are limited and can only be allocated in order of priority upon receipt of registration and any payment due.
2. We regret that we generally do not issue invoices or accept payments at the event.
3. Refunds for cancellation are not possible after the registration closing date (7 May 2008).
4. Members registering to attend 'free of charge' are required to give 7 days notice of cancellation or an administration charge of \$30 will be levied.
5. We reserve the right to refuse to register or admit any participant, and to cancel or postpone the event.

For further enquiries, please contact the SCL SECRETARIAT

Tel: 31273797 (no 6 prefix required) Fax: (65) 63299699 E-mail: secretariat@scl.org.sg Website: www.scl.org.sg

Registration is required by 7 May 2008.

REGISTRATION FOR SCL MEMBERS & THEIR GUESTS

Please use 1 form per SCL Member

Name: _____ NRIC/Passport No.: _____ SCL Membership No.: _____

Tel: _____ Fax: _____ E-mail: _____

I will be attending. (A valid email address is required for confirmation of registration.)

Please reserve _____ seats for my guests and I enclose payment of \$60.00 per guest. My guest(s) are:

Name(s)	Organisation	Email

I enclose a cheque for SGD _____ made payable to "Society of Construction Law (Singapore)".

REGISTRATION FOR NON-SCL MEMBERS

Please use 1 form per registrant.

I am a: (Please select as appropriate.)

SCL (Malaysia) Mbr SCL (UK) Mbr NUS Student _____ CIOB Mbr IES Mbr IStructE Mbr
(pls state Faculty)

Law Society Mbr SCAL Mbr SIA Mbr SI Arb Mbr SIP Mbr SISV Mbr Other

Name (Dr/Mr/Mrs/Miss/Mdm): _____

Name and Address of Organisation: _____

Position in Organisation: _____ NRIC/Passport No: _____

Membership No: _____ (Mandatory to process registration. Please check with your respective membership body.)

Tel: _____ Fax: _____ Email: _____

(A valid email address is required for confirmation of registration.)

I enclose a cheque for SGD _____ (\$80 per non-member) made payable to "Society of Construction Law (Singapore)".