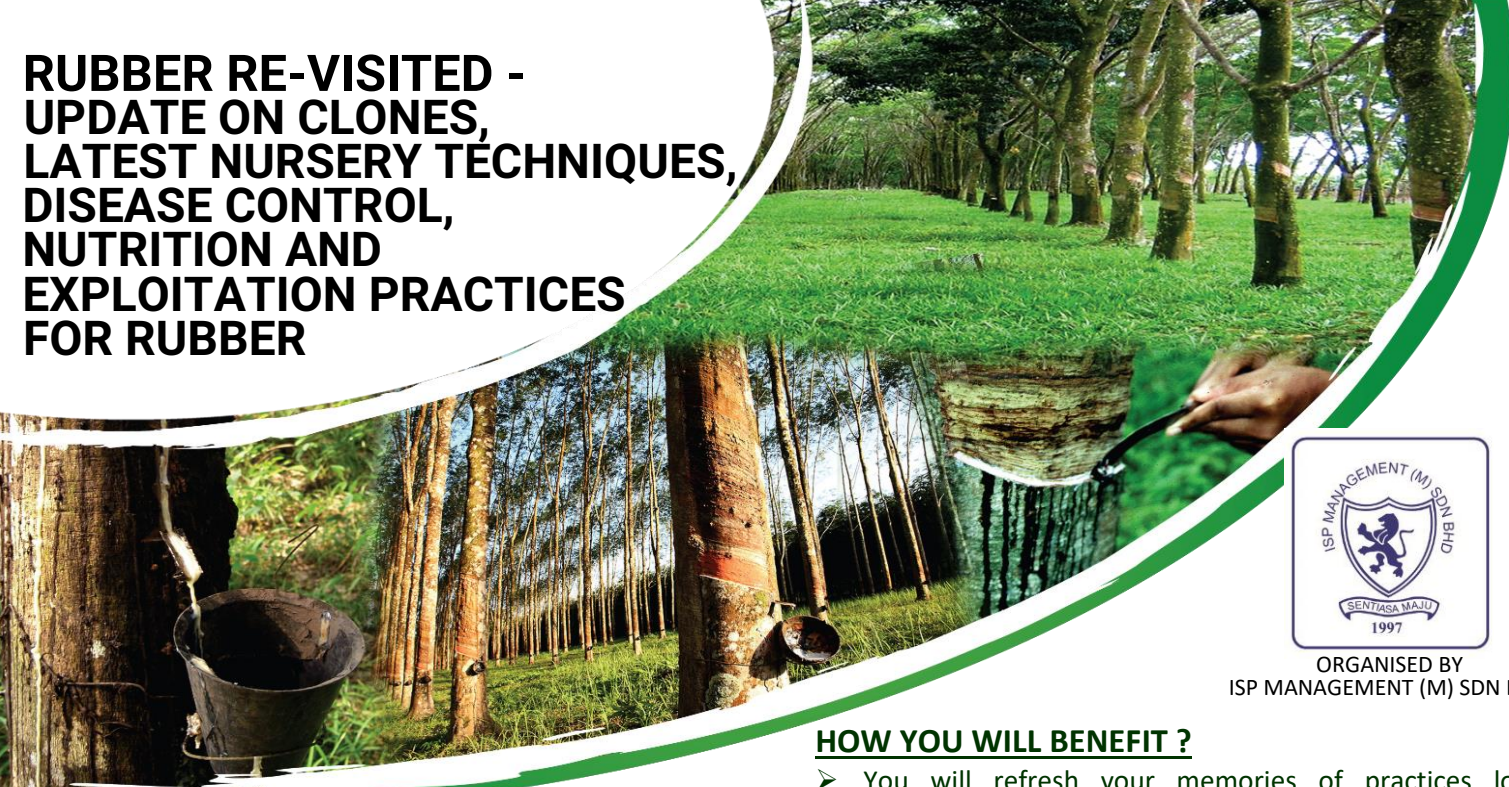


# RUBBER RE-VISITED - UPDATE ON CLONES, LATEST NURSERY TECHNIQUES, DISEASE CONTROL, NUTRITION AND EXPLOITATION PRACTICES FOR RUBBER



ORGANISED BY  
ISP MANAGEMENT (M) SDN BHD

**SPEAKER:** MR CHAN WENG HOONG  
**DATE:** 30 – 31 JULY 2019  
**VENUE:** ISP HEADQUARTERS  
SUITE 3A01, LEVEL 3A, PJ TOWER  
AMCORP TRADE CENTRE, 18 PESIARAN BARAT  
46050 PETALING JAYA, SELANGOR

## OVERVIEW

- The programme is a refresher course on rubber, commencing from nursery practices through exploitation of the crop.
- Estate practices with regard to rubber has been long forgotten by most older planters and probably unheard of by young planters as large plantation groups have moved away from this crop, for Oil Palm (OP).
- Owing to over-dependency on a single crop, viz OP, some plantation companies have returned to rubber as a form of minor diversification, especially when the environment is deemed less favourable to OP. The latter include steep terrain and prolonged climatic dry spells.
- The topics covered would provide participants with much information on choice of clones with regard to climatic conditions, practical issues related to the preparation of nursery materials, good field planting practices, disease control, nutrition and suitable exploitation systems for clones.

## TARGET AUDIENCE

The programme will be suitable for :-

- General Managers/ Plantation Controllers
- Senior Estate Managers
- Estate Managers
- Senior Assistant Managers
- Assistant Managers
- Plantation executives
- Agronomists
- Companies involved in rubber industry.

## HOW YOU WILL BENEFIT ?

- You will refresh your memories of practices long forgotten but currently updated with the latest findings.
- You will be able to use the technical knowledge to enhance growth and production of the crop leading to improved profitability through,
  - i. Improved techniques to reduce the long gestation period of rubber
  - ii. Innovative exploitation systems to manage the scarcity of labour as well as prolong lifespan of the crop
- You will be more knowledgeable in dual crops as most planters are presently well versed in oil palm management only
- You will optimize your land use by diversification of crops for maximization of profit.

## SUMMARY

- You will get an updated knowledge on preparation of rubber nursery, good agronomic practices during the immature period of rubber and efficient exploitation systems on the latest rubber clone
- You will gain greater confidence and also be innovative in estate operations after having armed yourself with updated information on the crop
- You will also impart updated knowledge to your team members and together, raise productivity of the estate.
- You will add value to your career opportunities.

## METHODOLOGY

Lecture, discussion, demonstration and case studies.

## REGISTRATION FEES

- ISP MEMBER RM550 (INCLUSIVE OF 6% SST)
- NON-MEMBER RM650 (INCLUSIVE OF 6% SST)

**BOOK NOW**

## WHAT YOU WILL COVER?

DAY 1	MORNING SESSION (9.00 AM – 1.00 PM)	AFTERNOON SESSION (2.00 PM – 5.00 PM)
	<p><b>1. PRODUCTION OF SUPERIOR MATERIALS FOR FIELD PLANTING</b></p> <ul style="list-style-type: none"> <li>➤ Preparation of budwood nursery</li> <li>➤ Preparation of polybag and ground nursery</li> <li>➤ Preparation of polybag buddings and bare rooted stumps in polybag</li> <li>➤ Use of controlled release fertilizers; Control of Helminthosporium leaf disease</li> <li>➤ Size of rootstock for improved cut back success</li> <li>➤ Production of APMs using nursery material and laggards in the field</li> </ul> <p><b>2. BEST AGRONOMIC PRACTICES FOR OBTAINING A VIGOROUS AND UNIFORM STAND OF RUBBER AT OPENING</b></p> <ul style="list-style-type: none"> <li>➤ Planting density, planting pattern, spacing and direction of planting, system of supplying</li> <li>➤ Branch pruning and height of pruning for non-self-pruning and self-pruning clones</li> <li>➤ Planting of legumes, manuring practices</li> <li>➤ Control of white root disease and Pink disease</li> <li>➤ Minimizing wind damage by observing branching habit of clones and also use of wind breakers to reduce tunneling effect of wind</li> <li>➤ Girth measurement, tappability census</li> <li>➤ Removal of laggards to improve uniformity of stand prior to opening of trees for tapping. Using laggards for supplying.</li> <li>➤ Opening standard, tapping systems based on inherent yield characteristics of clones taking advantage of the inverse relationship between yield and growth characteristics</li> </ul>	<p><b>3. FACTORS INVOLVED IN THE CHOICE OF CLONES</b></p> <ul style="list-style-type: none"> <li>➤ Factors influencing performance of clones</li> <li>➤ Yield and secondary characteristics of clones, environmental constraints</li> <li>➤ Criteria for choice of clones</li> <li>➤ Characteristics of major importance, characteristics of moderate importance, characteristics of minor importance</li> <li>➤ Classification of common clones planted in Malaysian estates based on yield characteristics</li> <li>➤ Characteristics of some common Malaysian clones</li> </ul> <p><b>4. GROWTH AND YIELD OF RRIM 2000 AND 3000 SERIES CLONES AND CLONAL RECOMMENDATIONS FOR RUBBER GROWERS</b></p> <ul style="list-style-type: none"> <li>➤ Trial on RRIM 2000 series evaluating 12 clones</li> <li>➤ Assessed yield and secondary characteristics (girth, branching, pruning habit, leaf disease and wind damage)</li> <li>➤ Trial and commercial yields over first 5 years</li> <li>➤ Evaluation of RRIM 3000 series, RRIM 3001</li> </ul>
DAY 2	<p><b>5. NUTRITION OF RUBBER</b></p> <ul style="list-style-type: none"> <li>➤ Role of nutrients</li> <li>➤ Nutrient deficiency symptoms</li> <li>➤ N budget in Clone PB 260</li> <li>➤ Nutrient requirement for growth and yield in clone PB 260</li> <li>➤ Dry matter production in relation to girth increment in immature PB 260</li> <li>➤ Response to fertilizers in rubber – old RRIM trial results</li> <li>➤ Relationship between manuring and wind damage</li> <li>➤ Relationship between magnesium and pre-coagulation.</li> <li>➤ Source of nutrients – types of inorganic fertilizers</li> <li>➤ Fertilizer application in immature rubber – frequency, placement, rates</li> <li>➤ Fertilizer application in mature rubber – timing, rates</li> </ul> <p><b>6. MAJOR DISEASES OF RUBBER</b></p> <ul style="list-style-type: none"> <li>➤ Main diseases covered are Leaf, Stem and tapping panel</li> <li>➤ Nursery leaf diseases – Bird's eye spot, Colletotrichum, Oidium, Corynespora leaf spot</li> <li>➤ Symptoms of various leaf diseases</li> <li>➤ Field leaf diseases – Oidium, Colletotrichum, Corynespora, Fusarium, Phytophthora</li> <li>➤ Predisposing factors</li> <li>➤ Yield loss due to leaf disease quantified</li> <li>➤ Disease management</li> <li>➤ Diseases of stem and tapping panel – Pink disease, Mouldy rot and Black stripe.</li> <li>➤ Symptoms of stem and panel diseases and their control</li> </ul>	<p><b>7. CHEMICAL CONTROL OF WHITE ROOT DISEASE BY SOIL DRENCHING</b></p> <ul style="list-style-type: none"> <li>➤ Economic importance of WRD</li> <li>➤ Symptoms – above ground and below ground</li> <li>➤ Trials on root disease</li> <li>➤ Influence of frequency of foliar inspection on incidence and severity</li> <li>➤ of root disease</li> <li>➤ Influence of frequency of collar inspection on incidence and severity</li> <li>➤ of root disease</li> <li>➤ Effectiveness of various chemicals against WRD.</li> <li>➤ Recommended chemicals and dosage rates against WRD</li> </ul> <p><b>8. EXPLOITATION PRACTICES IN RUBBER</b></p> <ul style="list-style-type: none"> <li>➤ Exploitation</li> <li>➤ Tapping, stimulation, collection, rain-guards</li> <li>➤ Tapping</li> <li>➤ Opening standard, task size, conventional tapping, puncture tapping.</li> <li>➤ Factors influencing yield in tapping operation</li> <li>➤ Direction, slope, depth &amp; length of cut, frequency &amp; intensity of tapping, stimulation, time of tapping.</li> <li>➤ Stimulation practices</li> <li>➤ Closed and open systems, mode of action of conventional stimulation,</li> <li>➤ amended ethephon,</li> <li>➤ Factors influencing response to ethephon stimulation</li> <li>➤ Tree dryness</li> <li>➤ Rain-guards</li> <li>➤ Recommended exploitation systems</li> <li>➤ Unconventional exploitation of high panels in old rubber.</li> </ul>

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**NO. 18 PERSIARAN BARAT, 46050 PETALING JAYA, SELANGOR**  
**REGISTRATION FORM**

Company Name: \_\_\_\_\_  
 Person In charge: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Address: \_\_\_\_\_

Signature _____	Company's Stamp
Name: _____	
Designation: _____	

**PARTICIPANT(S)' DETAILS**

1. Name: \_\_\_\_\_  
 I/C No.: \_\_\_\_\_ Member: RM550.00 (Membership No.: \_\_\_\_\_)  Non-Member: RM650.00
2. Name: \_\_\_\_\_  
 I/C No.: \_\_\_\_\_ Member: RM550.00 (Membership No.: \_\_\_\_\_)  Non-Member: RM650.00
3. Name: \_\_\_\_\_  
 I/C No.: \_\_\_\_\_ Member: RM550.00 (Membership No.: \_\_\_\_\_)  Non-Member: RM650.00
4. Name: \_\_\_\_\_  
 I/C No.: \_\_\_\_\_ Member: RM550.00 (Membership No.: \_\_\_\_\_)  Non-Member: RM650.00
5. Name: \_\_\_\_\_  
 I/C No.: \_\_\_\_\_ Member: RM550.00 (Membership No.: \_\_\_\_\_)  Non-Member: RM650.00

**Special Dietary Requirement (Tick if applicable)**

Vegetarian  Others .....

**PAYMENT METHOD**

Cash  Online Transfer  ATM Transfer  
 Cheque/ Bank Draft (Cheque/ Bank Draft No.: \_\_\_\_\_ )

Amount: RM \_\_\_\_\_

Payment can be made to **ISP MANAGEMENT (M) SDN BHD** bank account **AMBANK ISLAMIC BERHAD/ AMBANK BERHAD**  
**888-101-596-8511**

**\*\*Please return the registration form and provide proof of payment to emails below**

**TERMS AND CONDITIONS**

- Request for cancellation must be made in writing.
- 100% refund will be made for written cancellation received before the day of the Seminar. Refund will be issued after the Seminar.
- No refund will be given for cancellation received after the Seminar. However, replacement is acceptable; please forward the replacement name to emails below.
- The registration form serves as the official invoice.
- All membership subscription should be paid before the day of the Seminar to entitle for members' rate, or else, non-members' rate will be applied.

Registration must be done by faxing/emailing the registration form to the following:

**CONTACT PERSON**

For **REGISTRATION:** Ms. Nabilah Tel. No.: 03-7955 5561 Email: nabilah@isp.org.my  
 For **Enquiries:** Mr. Rajindran Tel. No.: 012-316 1280 Email: rajindran@isp.org.my



**DEADLINE:**  
**26 JULY 2019**

# **CURRICULUM VITAE**

## **MR. CHAN WENG HOONG**

### **QUALIFICATION**

1. B Sc Agriculture (2nd Class Upper) University of Malaya, 1973
2. Attachment with Soils Division, Lembaga Getah Malaysia for 3 months in 1973
3. Attachment with East Malling Research Station UK for root studies for 7 weeks (1981).

Visited few Research Stations in UK.



### **WORK EXPERIENCE**

Started his career as a Rubber Agronomist with Highlands Research Unit in 1973 and subsequently as Agronomist for rubber and oil palm with Applied Agricultural Resources (AAR) in 1985 until his retirement in 2015.

In AAR, his job function was to provide sound agronomic advices to rubber and oil palm to both Principal and non- principal estates.

As Section Head of oil palm and rubber, he was in charge of allocation of estates to all advisory officers and also planned the annual leaf and soil sampling programmes for Peninsular Malaysia, Sabah and Sarawak. His advisory estates covered Peninsular Malaysia, Sabah, Sarawak and Indonesia. He has also visited rubber in Sri Lanka, China, India, Indonesia, Thailand, Vietnam and Cambodia.

His main research interest was in rubber especially on exploitation and clonal evaluation. Research work on exploitation included the evaluation of short cuts. Evaluation of the latest Prang Besar and RRIM 2000 series clones was also conducted. He is also familiar with all aspects of agronomic advisory ranging from nursery practice to felling.

### **INVENTIONS**

- ❖ AAR jacket system and AAR Rainguard, both of which have been patented.
- ❖ Developed formulation for Esigel latex stimulant.

### **PAPERS PUBLISHED/PRESENTED AT NATIONAL/INTERNATIONAL CONFERENCES**

He has presented/published more than 50 papers on various aspects of rubber at national and international Conferences in Malaysia, Indonesia, China, India, Vietnam, Cambodia, Singapore and Philippines.

### **MERITOCRACY AWARD**

Awarded the inaugural Datuk Leslie Davidson Award for the Best Technical article in 2015 issue of THE PLANTER, for the paper entitled, 'Dry Matter Production Of Hevea Clone PB 260`

Jointly written by Chan Weng Hoong & Ong Tee San.

The award carried a cash prize of RM 10,000.00

### **DIRECTORSHIP**

Independent non- executive Director of Kim Loong Bhd, a plantation Company listed in the KLSE (2011 – current)

