

PI ETA CONSULTING COMPANY

**Financial Markets
Simulation
- Basic Practical Knowledge
Acquisition**

The Alpha, #03-16A, 10 Science Park Road, Singapore Science Park II
Singapore 117684, Republic of Singapore
Tel: +65 634 100 10 | Fax: +65 634 100 20 | Email: marketing@pi-eta.com

OUTLINE FOR FINANCIAL MARKETS SIMULATION – BASIC PRACTICAL KNOWLEDGE ACQUISITION PROGRAM, A 1-DAY PROGRAM

➤ **Basic Practical Knowledge Acquisition Module**

- Participants are given the opportunity for the first time to use PI ETA Consulting Company's Treasury and Risk Management System (The PERMIT^{®1} System) to allow them to acquire an initial practical feel of the "real world".
 - Some structured exercises will be introduced to allow participants to have a taste of selected segments of the system and the practical world of financial markets.
- **Participants will be shown and then guided through the following Menus, sub-Menus with The PERMIT[®] System, as well as be given the opportunity to experience an overview of the various Processes and sub-Processes involved within The PERMIT[®] System.**

- **Administration**

- **Maintenance**

- Interest Rate Markets
 - Yield Curves Menu
 - Interest Rate Caps/Floors Volatility Surfaces Records Menu
 - Interest Rate Swaptions Volatility Surfaces Records Menu
 - Yield Curve Configurations
 - Bond Quotation Records Menu
 - Bond Quotation Display Format
 - Credit Rating Dealing Limits Information
 - Currency Codes Information
 - LIBOR/SOR Setting Inputs
- Foreign Exchange Markets
 - Foreign Exchange Records Menu
 - Foreign Exchange Volatility Surfaces Records Menu
 - Foreign Exchange Quotation Display Format
 - Country Codes Information
- Equity Markets
 - Equity Quotation Records Menu
 - Equity Volatility Surfaces Records Menu
 - Dividend Declaration Input
 - Equity Quotation Display Format
 - Industry Codes Information
- Commodity Markets
 - Commodity Quotation Records Menu
 - Commodity Volatility Surfaces Records Menu
 - Convenience Yield Realization Input
 - Commodity Quotation Display Format
 - Commodity Units Listing
- Dealing Contacts
 - Company Information

- Company Group Information
 - Individual Company Information
 - CounterParty Information
 - CounterParty Group Information
 - Individual CounterParty Information
 - Deal Clearing Agent Information
 - Bank Accounts
 - Company Bank Accounts Information
 - CounterParty Bank Accounts Information
 - Accounts Codes Information
 - Purposes Codes
 - Bank/Investment Accounts Codes
 - Holiday Information
- **Rates**
 - Interest Rate Markets
 - Interest Rate Input
 - Interest Rate Caps/Floors Volatility Surfaces Input
 - Interest Rate Swaptions Volatility Surfaces Input
 - Bond Quotation Input
 - Foreign Exchange Markets
 - Foreign Exchange Rate Input
 - Foreign Exchange Volatility Surfaces Input
 - Equity Markets
 - Equity Quotation Input
 - Equity Volatility Surfaces Input
 - Commodity Markets
 - Commodity Quotation Input
 - Commodity Volatility Surfaces Input
 - PERMIT® Live Feeds Configurations
 - Interest Rate Markets
 - Foreign Exchange Markets
 - Equity Markets
 - Commodity Markets
- **Program**
 - Market Exposure Capturing
 - Platform Exposure (Interest Rate Markets)
 - Platform Exposure (Foreign Exchange Markets)
 - Platform Exposure (Equity Markets)
 - Platform Exposure (Commodity Markets)
 - Interest Rate Instruments
 - Platform FRAs
 - Platform Swaps
 - Platform Caps/Floors/Digitals
 - Platform Swaptions
 - Platform Fixed Income
 - Platform CashFlow Analysis
 - Currency Instruments
 - Platform Spot/Forwards

- Platform Vanilla Options
 - Platform Exotic Options
 - Equity Instruments
 - Platform Spot/Forwards
 - Platform Vanilla Options
 - Platform Exotic Options
 - Commodity Instruments
 - Platform Spot/Forwards
 - Platform Vanilla Options
 - Platform Exotic Options
- **Deals**
 - Market Exposure Listing
 - Interest Rate Markets
 - Foreign Exchange Markets
 - Equity Markets
 - Commodity Market
 - Deal/Structure Listing
 - Interest Rate Instruments
 - Currency Instruments
 - Equity Instruments
 - Commodity Instruments
 - Realized Profit/Loss Listing
 - Interest Rate Instruments
 - Currency Instruments
 - Equity Instruments
 - Commodity Instruments
 - Actual CashFlow Listing
 - Interest Rate Instruments
 - Currency Instruments
 - Equity Instruments
 - Commodity Instruments
 - Personal Blotter
 - Interest Rate Instruments
 - Currency Instruments
 - Equity Instruments
 - Commodity Instruments
 - Net Open Positions (FX)
 - Collateral Management
 - Rolled Over Deals
- **Risks**
 - Risk Analysis Reports
 - Interest Rate Instruments
 - Currency Instruments
 - Equity Instruments
 - Commodity Instruments
 - Risk Limits Menu
 - Interest Rate Instruments
 - Currency Instruments
 - Equity Instruments
 - Commodity Instruments
 - Risk WatchDog Information

- **Tools**
 - Forecasted CashFlow Listing
 - Interest Rate Instruments
 - Currency Instruments
 - Equity Instruments
 - Commodity Instruments
 - Forecasted CashFlows Statement
 - Actual Sales Tax Listing
 - Interest Rate Instruments
 - Currency Instruments
 - Equity Instruments
 - Commodity Instruments
 - PERMIT® Historical Analyzer
 - PERMIT® Query Analyzer
 - Roll Over Standing Instructions

THE PERMIT^{®1} SYSTEM

The PERMIT[®] System is a multi-tier networkable enterprise Treasury & Financial Risk Management system developed entirely in-house by PETS Group working in tandem with PEER Group that supports straight-through processing of on-line treasury transactions. PERMIT[®] is the world's first comprehensive software to adopt the PET-DOG^{®2} system (on-line Help Functions and Guidance Features).

The PERMIT[®] System allows Program participants to have a hands-on experience of the Treasury Dealing process, and facilitates the learning experience on practical aspects focusing on the dealing of financial market instruments. Using The PERMIT[®] System, participants can price, structure and deal, and experience the deal capture process, simulate portfolio management and book running, and practice risk management.

The PERMIT[®] System can assist organizations in identifying optimal solutions pertaining to their investment and/or hedging requirements.

PERMIT[®] is a powerful Treasury and Risk Management systems which utilizes the PET-DOG[®] technology to provide guidance and support to Users in assisting them throughout the Treasury Dealing process.

It provides for straight-through dealing, processing and settlements functions, and end-of-day mark-to-market reports. Other standard accounting and cash management reports are also readily available to assist the Chief Financial Officer in reporting.

The system also has the following features:

Obtain Indicative Prices of Market Instruments and Structures Easily

Users will be able to acquire indicative levels on interest rate, currency, equity and commodity instruments and structures at any time (as long as key market rate inputs are updated). These market rate inputs can be obtained through "Live Feeds" via direct linkages to external data feed providers.

Ease of Experimenting, Managing and Monitoring of Different Instrument Structures

Users can experiment with various options and derivative structures on their own before going "live". Options or derivative structures can either be "saved as structures" or "saved as deals" and retrieved at a later time for future actions, like re-valuing of a deal etc. Structures are re-usable "test" platforms, whilst deals are confirmed trades done. Deals are automatically included by PERMIT[®] in its various management reports.

¹ PERMIT[®] which is an acronym for PI ETA Risk Management Information Technology, is a registered trademark of PI ETA Consulting Company.

² PET-DOG[®], which is an acronym for PI ETA Tactically-Developed On-line Guidance, is a registered trademark of PI ETA Consulting Company.

Generate Mark-To-Market and Risk Management Reports

These reports assist Users and Risk Managers in their financial risk management activities. PERMIT® produces mark-to-market Net Present Value and Sensitivity Analysis reports in compliance with derivative and fair value accounting standards. Value-at-Risk (VaR), Conditional-Value-at-Risk (C-VaR) and Stress Testing Reports are also available as an add-on using The PERMIT® Risk Manager System.

User-Friendly, Intuitive & Comprehensive On-line Help System

PI ETA's PET-DOG® system guides users throughout the pricing, structuring and dealing processes and minimizes all possible transcriptional errors. It also provides a base guideline for Risk Management.

For more information, please contact PI ETA Engagement Resource (PEER) Group at
Tel: +65 634 100 10 | Fax: +65 634 100 20 | Email: marketing@pi-eta.com | Website: www.pi-eta.com

PROGRAM FACILITATOR

Dr. Jeffrey C. K. Lim

Ph.D., C.Sci., C.Math., FIMA, FCPS, FRM, PRM, B.Fel.

Dr. Jeffrey C. K. Lim, certified Financial Risk Manager (FRM³) and certified Professional Risk Manager (PRM⁴), is currently the Managing Director of PI ETA Consulting Company, a Treasury & Financial Risk Management Consulting Company.

A Chartered Scientist (C.Sci.⁵), a Chartered Mathematician (C.Math.⁶) and an elected Fellow of the Institute of Mathematics and Its Applications (IMA), U.K. (FIMA), Jeff earned his Ph.D. in Stochastic Financial Modeling from the University of Cambridge in England. Jeff's research interest at Cambridge was in the area of Arbitrage Opportunities occurring in the Mispricing of Financial Options, and his original research culminated in the publication of his doctoral dissertation entitled: "Multi-period Mean-Variance Option Portfolio Strategies".

Jeff was an authorized Securities & Financial Derivatives Representative in London, having been certified by The Securities and Futures Authority (SFA) in England, where he started his career as a Derivatives Analyst with Nomura International in London, England. He subsequently joined NatWest Markets from London, England to become its Head of Currency Structured Products for South and South-East Asia. Jeff then moved to American Express Bank to become its Director of Structured Products, prior to assuming his current position.

Jeff has also contributed to the development and enhancement of talent and infrastructure for Singapore's financial center as a guest Professor at the National University of Singapore's Center for Financial Engineering, where he was responsible for the curriculum of its Master of Science degree program's core modules in Financial Derivatives and Treasury Management. In addition, Jeff has also been invited by the Nanyang Technological University and the Singapore Management University to share his expertise in a similar capacity. In recognition of Jeff's expertise and experience in the field of Treasury and Financial Risk Management, the University of New South Wales Asia appointed Jeff to be its first Adjunct Professor with the university's Division of Business and Humanities.

At PI ETA Consulting Company, Jeff was Principal Inventor in two of the Patents that the company currently holds – one in Treasury & Financial Risk Management Systems, and the other in Knowledge Management Systems.

Professionally, Jeff is a Fellow of both The Global Association of Risk Professionals (GARP), U.S.A. and The Professional Risk Managers International Association (PRMIA), U.S.A. He is also an elected Fellow of the Cambridge Philosophical Society, U.K. (FCPS) and a Life-time Member of The Cambridge Society, U.K. Jeff is also honoured to be a Fellow of The Cambridge Commonwealth Society, U.K., having been previously awarded the Cambridge Commonwealth Trust and the Shell Group of Companies Doctoral Research Scholarship.

³ The *Financial Risk Manager* (FRM) designation is awarded by The Global Association of Risk Professionals (GARP), U.S.A.

⁴ The *Professional Risk Manager* (PRM) designation is awarded by The Professional Risk Managers International Association (PRMIA), U.S.A.

⁵ The *Chartered Scientist* (C.Sci.) designation is awarded by The Science Council, U.K.

⁶ The *Chartered Mathematician* (C.Math.) designation is awarded by The Institute of Mathematics and Its Applications (IMA), U.K.

As a special recognition of Jeff's professional achievements, on 9 April 1999, Barons Who's Who conferred Jeff with the Barons Fellowship status, making him a Barons Fellow (B.Fel.). This award by their Charter, is limited to only the top 10% of those selected for publication in Barons Who's Who International.