

22-23 April 2008 / BANGKOK
The Westin Grande Sukhumvit

NexGen BioEthanol



“Commercialisation Prospects - Feedstocks Availability, Enzymes Technology, Water Purification Issues & Processing Challenges”

“Major developments in BioButanol!”

promotion partners



Optional 3rd day site Visits to Commercial Cassava fields and Rayong Field Crops Research Institute. Please register early.

HOW YOU WILL BENEFIT

You will attain a comprehensive grounding in Ethanol Production from 1st & 2nd Generation Feedstocks

- Production Processes from various feedstocks and how they affect ethanol quality
- Cellulosic Ethanol Manufacture, Economics, Technical Aspects
- State of Cellulosic Ethanol Technologies Worldwide
- Parameters influencing the Economics and Efficiency of Cellulosic ethanol Production from Diverse Crop
- Certification of Sustainability for export
- Quality Inspection along the logistics chain
- Ethanol Capacities in the region
- Most popular ethanol feedstocks in the region - Cassava, Sweet Sorghum and potential of palm fruit branches, rice husks
- Purification of Ethanol - and new developments in membrane technology
- Biobutanol and how it will impact the ethanol market

COURSE LEADER Cesar B. Granda, Ph.D.

Dr. Granda has been involved with biomass conversion to chemicals and fuels since 1997 conducting research in almost all unit operations of the process. He has experience in the sugar industry as well. Many technical publications and patents in these areas have resulted.

In his research, he has been involved in the preservation of sugarcane juice for processing into sugar and ethanol, pretreatment of sorghum & sugarcane fiber to increase biological digestibility, enzymatic degradation of sugarcane fibers into simple sugars for ethanol production, mixed & fermentation of lignocellulosic residues, conversion of organic acids and salts into alcohols (isopropanol and ethanol).

WHO SHOULD ATTEND

- Supply/Operations Executives/Analysts of Oil & Gas Majors
- Oil Trader's Assistants for Quality control and Blending
- Business, Planning & New Managers of Ethanol and Biodiesel Producers
- Ethanol Investors, Traders & Financiers & Risk Managers
- Sales and Marketing Executives of Food/ Agriculture and Industrial Biotechnology Corporations
- Sales and Marketing Executives of Additives and Enzymes Companies
- Commercial Managers of Shipping, Terminal, Logistics & Tanker Operations
- Middle/New Executives in Biofuels Technology and R&D
- Feedstock and Biomass Suppliers of Sugarcane, Corn/Maize, Sorghum etc
- Managers & Technical Executives in charge of Biofuels STARTUPS

Day 1

Tuesday, 22nd April 2008

- 8:00 Registration and Coffee
- 9:00 **INTRODUCTION TO TYPES AND METHODS FOR PRODUCING BIOFUELS. ETHANOL AS A BIOFUEL**
- ETHANOL PRODUCTION**
Brief Introduction to Mature technologies
- Squeezed sugar (Sugarcane)
 - Process description
 - Starch (Corn)
 - Process description
 - Distillation
 - Alcoholic distillation, description, capacities
 - Anhydrous ethanol production
 - Water removal from using membranes
 - Yields /Overall process energetics
- 10:00 **CURRENT REGIONAL ETHANOL CAPACITY, PLANNED PROJECTS**
Chris de Lavigne, VP Growth Consulting, Industrial Practice, AP
Frost & Sullivan
- 10:30 Discussion followed by Coffee
- 11:00 **HOW PRODUCT QUALITY IS DETERMINED BY FEEDSTOCKS AND PLANT**
- Creating large scale plantation basics
 - Economics and process optimization strategies
- FOCUS ON ASIA'S PROMISING FEEDSTOCKS**
- i) **Sweet Sorghum**
Dr. Belum Reddy, Principal Scientist
ICRISAT (Intl Crops Research Insti for Semi Arid Tropics)
- ii) **Cassava**
- Recent commercial developments of Cassava-Ethanol processing
- Dr. Reinhardt Howeler
CIAT (International Center for Tropical Agriculture)

Program topics, speakers and schedules published herein are confirmed as at printing time. Please refer to the event's timetable page at www.cmtevents.com for the most up-to-date information.

- 12:00 **GOVERNMENT POLICIES FOR BIOFUELS AND THE USE OF VARIOUS FEEDSTOCKS FOR FUEL-ETHANOL PRODUCTION IN THAILAND**
Dr. Samai Jai-In, National Coordinator - Biofuels
MTEC (Metal & Material Technology Center)
- 12:30 **LATEST TECHNOLOGIES IN CONVERTING CASSAVA ROOTS INTO ANHYDROUS ETHANOL**
Dr. Klanarong Sriroth, Specialist and Leader of a Cassava Starch Laboratory
Kasetsart University
- 1:00 Discussion followed by Lunch
- 2:15 **POTENTIAL USE OF CASSAVA FOR FUEL ETHANOL PRODUCTION IN NIGERIA**
- How the role of cassava in Africa is going to change from a food crop to an important industrial crop
- Cassava Investor in Nigeria**
- 2:45 **CELLULOSIC ETHANOL**
- Historic background of cellulosic ethanol
 - Importance of establishing a cellulosic-ethanol economy
 - Potential feedstock & yields - sugarcane bagasse & trash, corn straw (stover), rice straw, wheat straw, rice husks, municipal solid waste, sewage sludge, manure (cattle, poultry, swine), wood chips, switch grass
 - Characteristics of lignocellulose
 - Some incentives for implementing cellulosic ethanol
 - Agricultural waste burning phase out
 - Lignocellulose yields
 - Environmental impact of using wastes
 - Potential ethanol yield from lignocellulosic sources
 - High-productivity crops (energy cane, Miscanthus hybrids, sweet sorghum, water hyacinth)
 - Harvesting, transportation and storage strategies (efficiency and economics)
- Dr. Cesar Granda
- 5:30 Final Discussion & Close of Day 1

Day 2

Wednesday, 23rd April 2008

- 9:00 **ETHANOL PRODUCTION FROM LIGNOCELLULOSE**
- Gasification followed by Catalysis**
 - Economics/yields
 - Description of processes
 - Gasification followed by ethanol fermentation (Gaddy process)**
- 10:00 Discussion followed by Coffee
- 10:30 iii) **Lignocellulose hydrolysis processes followed by ethanol fermentation**
- Acid hydrolysis
 - Enzymatic hydrolysis
 - Pretreatment technologies for enhancing biodigestibility
 - Ethanologenic microorganisms
- 11:30 **BREAKTHROUGHS IN CELLULOSIC ENZYMES TECHNOLOGY**
Inviting: **Major Enzyme Company**
- 12:00 Discussion followed by Lunch
- 2:00 iv) **Lignocellulose hydrolysis followed by Acetic-acid fermentation with downstream Chemical transformation into ethanol (the Zechem process)**
- Rationale: Acetic-acid fermentation vs. ethanol fermentation
- v) **Mixed-acid fermentation of lignocellulose followed by downstream chemical transformation into ethanol and higher-alcohols (the MixAlco process)**
- Alcohols conversion to gasoline, diesel and jet fuel
- 3:00 **ADVANCED MEMBRANE TECHNOLOGY FOR ETHANOL DEWATERING**
Willy Yeo, Assistant VP
Hyflux Pty Ltd

- 3:30 **CERTIFICATION OF SUSTAINABILITY & QUALITY ALONG THE LOGISTICS CHAIN**
Senior Representative
SGS
- 4:00 **RECENT DEVELOPMENTS IN BIOBUTANOL**
Dr. Cesar Granda
- 4:30 Final Discussion. Close of Conference

Day 3

Thursday, 24th April 2008

Full Day Site Visit (Fee: USD100)
7:30am - 6:00pm

- 7:30 *Gather at Lobby to depart for Rayong province*
- 10:00 *Arrive at Commercial Cassava fields*
- Visit the **Rayong Fields Crop Research Int.** The center is currently evaluating over 600 cassava varieties recently introduced from CIAT in Colombia; crossing these with some of the best local varieties to produce higher yielding new varieties. Also they have recently identified and have released for commercial planting a new variety that produces exceptionally high ethanol yields*
- 12:30 *Lunch*
- 2:00 *Visit Starch factory, chipping & drying factories nearby*
- 3:00 *Depart for Bangkok*
- 6:00 *Back in Westin Grande Sukhumvit*

NexGen BioEthanol

22-23 April 2008 | BANGKOK

PRIORITAIRE	
En cas de non remise prière de retourner à Postfach 1100 36243 Niederaula ALLEMAGNE	Deutsche Post Port payé 60544 Frankfurt Allemagne Luftpost / Prioritaire

Register for (pls tick)

- conference
 plus field trip (at USD100 extra)

Fees: The full Registration Fee includes cost of all sessions, luncheon, coffee/tea & documentation.

1 Person	Group fee for 3 or more* (from the same company)
USD1,395	USD1,095 (MIN SAVINGS OF USD900)

* Terms and conditions apply.

Cancellations, Refunds & Transfers: A full refund will be promptly made for all written cancellations 3 weeks before the meeting. Thereafter, cancellations are not refundable. A substitute may be made at any time.

TO REGISTER

Online: www.cmtevents.com
Email: emily@cmtsp.com.sg
Fax: (65) 6345 5928
Tel: (65) 6345 7322

TELEGRAPHIC TRANSFER

Account Name: **Centre for Management Technology**
A/C No: **251 - 004487 - 178**
Bank: HSBC Singapore
Branch: Marine Parade, Singapore
Swift Code: HSBC SGSG

TT must include additional USD21 for Beneficiary's Bank charges. Delegates must bear all bank charges and local taxes (if applicable). Fees must be NETT of ALL charges.

CUSTOMISED SPONSORSHIP PACKAGES AVAILABLE

This event is an excellent platform to promote your organisation to influential players and investors in the industry. Sponsorship opportunities available include Corporate, Exclusive Luncheon, Cocktail & Documentation sponsor. Exhibition / catalogue display can be arranged upon request. Contact cynthia@cmtsp.com.sg or (65) 6346 9132.

Photocopy Registration Form to Preserve Brochure Copy. Apr 2008

BiofuelsWorld

Manila, The Philippines / 13-14 May

Conference covering biofuel developments in Asia, standards and sustainability, 2nd generation feedstock, process technologies.

Includes optional workshop on ALGAE

NexGen BioEthanol

Geneva, Switzerland / 28-29 May

2nd JatropaWorld

Miami, Florida / 10-11 June

*Timely meeting for the emerging
global jatropa industry*

With growing interests in the Americas, CMT is bringing JatropaWorld to where the action is. Be sure to join us next in Miami.

3rd BTLtec Europe

(Biomass to Liquids)

Gothenburg, Sweden / 13-14 October

080426BEM02

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

If undeliverable, please return to: 80 Marine Parade Road # 13-02 Parkway Parade Singapore 449269

Update your details at www.cmtevents.com

Name	<input type="text"/>
Position	<input type="text"/>
Email	<input type="text"/>
Tel	<input type="text"/>
Fax	<input type="text"/>
Company	<input type="text"/>
Address	<input type="text"/>
City/Postcode	Country

CONFERENCE VENUE

CMT has arranged special discounted room rate at THB 5,500++ / THB 5,900++ (Single/Double) per room per night inclusive of 1 daily American Breakfast (subject to room & rate availability) for delegates at **The Westin Grande Sukhumvit**. Please reserve your room with the hotel directly, providing full credit card number and expiry date to:

Trinuch Jongsubcharoen, Director of WOC & Convention Services

The Westin Grande Sukhumvit, Bangkok

259 Sukhumvit Road, Bangkok 10110, Thailand

Phone: **66 2 2078114** Fax: **66 2 6511070**

Email: trinuch.jongsubcharoen@westin.com

Cut off Date for Room Booking: 1 April 2008