Program topics, speakers and schedules listed herein are confirmed as at printing time.
*Please refer to the event's Latest Schedule at **www.cmtevents.com** for most up-to-date details.*

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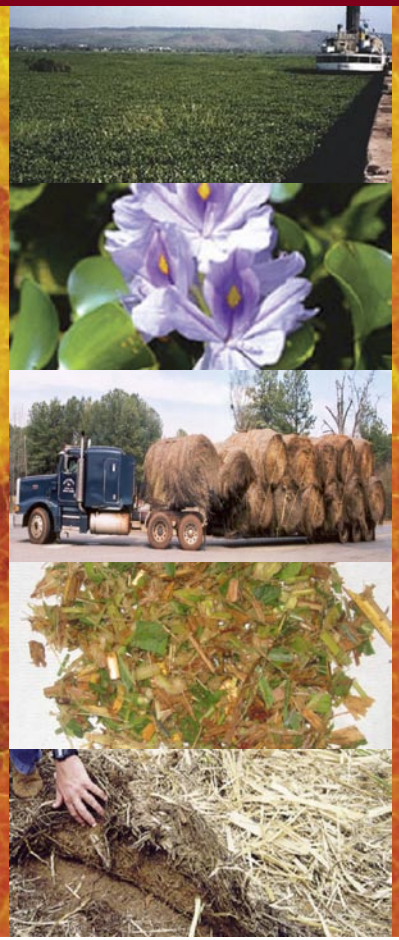
into our 25th year



next gen BioEthanol

28-29 May 2008 / GENEVA
SGS Group Headquarters

Production Technology, Economic Analysis of Various Feedstocks, DDGs Markets, Water Management & Supply Chain issues

PLUS half day session
Commercialisation of BioButanol and Technical Challenges

promotion partners

EthanolMarket.com · energyme.com · platts · HCB hazardous cargo bulletin · biofuel review · WorldOils The world's oil central · Ethanol India · F&L asia, inc. · Biofuels Journal

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Key Reasons to Attend

You will attain a comprehensive grounding in Ethanol Production from traditional & mostly **2nd Generation* Feedstocks

- Production Processes from various feedstocks and how they affect ethanol quality
- Markets & pricing for ethanol byproducts DDGS
- Cellulosic Ethanol, Economics, Technical Aspects and Parameters influencing Production Efficiency
- State of Cellulosic Ethanol Technologies Worldwide & Commercialisation strategies
- EU Certification of Sustainability for export
- Quality Inspection along the logistics chain
- Water Management Issue, purification of ethanol and new developments in membrane technology
- Biobutanol - technical challenges and why is should be considered a better biofuel than ethanol

** 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*

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Course Leaders

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-acid fermentation of lignocellulosic residues, conversion of organic acids and salts into alcohols (isopropanol and ethanol).

Hans Blaschek

Hans research areas include Genetic manipulation of microorganisms for biotechnological applications, examination of dry milling co-products as substrates for fermentation to value-added products, development of an integrated fermentation system for solvent production and recovery, pathogen transmission on minimally processed foods. Hans served for the U.S. Department of Agriculture as the Value-Added/Biofuels Panel Manager for NRI Competitive Grants Program from 1994-1995. He has also consulted on Biomass Conversion systems for Dupont. Hans served as a Research Collaborator and Consultant for Mitsubishi Chemical and Research Institute Technology for Earth (RITE), Kyoto, Japan since 1994.

Including other Industry Panelists from
Frost & Sullivan, Ecofys, Hyflux, SGS

Day 1

Wednesday, **28th May 2008**

8:00 Registration & Coffee

8:20 **ETHANOL ECONOMICS; FEEDSTOCKS, PRODUCTION AND BY-PRODUCTS**
- Global & regional ethanol capacities, update on planned projects

Robert Outram
Team Leader Specialty Chemicals
Frost & Sullivan

NEXT GEN ETHANOL PRODUCTION TECHNOLOGY & ECONOMICS

Conducted by **Dr. Cesar Granda**

9:00 **ETHANOL PRODUCTION**
Brief Introduction to Mature technologies
- Squeezed sugar (Sugarcane)
  - Process description
- Starch (Corn)
  - Process description
- Distillation
  - Alcoholic distillation, description, capacities
- Anhydrous ethanol production

10:00 **ADVANCED MEMBRANE TECHNOLOGY FOR ETHANOL DEWATERING**
Willy Yeo, Assistant VP
Hyflux Pty Ltd

- Yields /Overall process energetics

CELLULOSIC ETHANOL
- Historic background of cellulosic ethanol
- Importance of establishing a cellulosic-ethanol economy
- Potential feedstock & yields
- Characteristics of lignocellulose

Day 2
Thursday, 29th May 2008

- 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)

12:30 Lunch

ETHANOL PRODUCTION FROM LIGNOCELLULOSE

i) ***Gasification followed by Catalysis***
- Economics/yields
- Description of processes

ii) ***Gasification followed by ethanol fermentation (Gaddy process)***

iii) ***Lignocellulose hydrolysis processes followed by ethanol fermentation***
- Acid hydrolysis
- Enzymatic hydrolysis
- Pretreatment technologies for enhancing biodigestibility
- Ethanologenic microorganisms

4:00 **BREAKTHROUGHS IN CELLULOSIC ENZYMES TECHNOLOGY**
Inviting: **Major Enzyme Company**

4:30 Discussion and End of Day 1

9:00 iv) ***Lignocellulose hydrolysis followed by Acetic-acid fermentation with downstream Chemical transformation into ethanol (the Zeachem 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

10:30 **OVERVIEW AND COMPARISON OF INITIATIVES IN THE LIGNOCELLULOSE ETHANOL PLAYING FIELD**
- Comparison of major initatives and ranking the major players, in terms of technology, feedstocks used, commercialisation strategies

Carlo Hamelinck
Ecofys BV

11:15 **CERTIFICATION OF SUSTAINABILITY AND QUALITY ALONG THE LOGISTIC CHAIN**
Kris Truyens, Alternative Fuels Services,
SGS

BIOBUTANOL - TECHNOLOGY, ECONOMICS & RECENT DEVELOPMENTS
Conducted by Dr Hans Blaschek

11:45 **INTRODUCTION & HISTORY OF THE ABE FERMENTATION**

METABOLIC PATHWAY

12:30 Lunch

2:00 **CLOSTRIDIA STRAIN DEVELOPMENT AND CHARACTERIZATION**

POST-GENOMIC CHARACTERIZATION

DOWNSTREAM PROCESSING AND RECOVERY INTEGRATED PROCESS

SCALE UP AND COMMERCIALIZATION OF ABE

5:00 Final Discussion. End of Conference

WHO SHOULD ATTEND
- Business, Planning & New Managers of Ethanol and Biodiesel Producers
- Ethanol Investors,Traders & Financiers & Risk Managers
- Sales and Marketing Executives of Food / Grains / 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
- Managers & Technical Executives incharge of Biofuels StartUps
- Renewable Energy Cos

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28-29 May 2008 | GENEVA

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Rue de Zurich 191201 Genève
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Please reserve your room with the hotel directly.

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)
EUR1,295	**EUR995 (MIN SAVINGS OF EUR900)**

** 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.

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Photocopy Registration Form to Preserve Brochure Copy. May 2008

~ CMT'S 2008 EVENTS ~

next gen BioETHANOL

Bangkok, Thailand / 22-23 April

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

2nd JatrophaWorld

Miami, Florida / 10-11 June

Timely meeting for the emerging global jatropha industry

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

3rd BTLtec Europe

(Biomass to Liquids)

Gothenburg, Sweden / 13-14 October