



## Day 1 - 28 Oct 2013, Monday

08:00	Registration	11:30	<b>Development of algae-based bioplastics; transformation from low-cost algae to high-value added thermoplastic materials</b> <i>Dr. Motonari Shibakami</i> <i>Senior Researcher</i> <i>National Institute of Advanced Industrial Science &amp; Technology (AIST)</i>
09:00	Chairman's Introduction	12:10	<b>Total biomass conversion – naturally occurring algae and multi-biomass to drop-in fuels for the near term</b> <i>Mr. Nick Gerritsen, Director</i> <i>NXT Fuels Limited</i>
09:10	<b>Update on Loxley Algae Bio-fuel Demonstration Plant</b> • Alternative way of producing Algae Oil using Hydro Thermal Liquefaction (HTL) technology <i>Mr. Nattapon Dejvitak, VP Business Development</i> <i>Loxley Public Company Limited</i> <i>Mr. Anthony Bates, General Counsel &amp; Director of Asia Operations</i> <i>MBD Energy Limited</i>	12:50	Discussion followed by Lunch
09:40	<b>Commercializing Advanced Biologics in Algae</b> <i>Dr Jason Pyle, CEO</i> <i>Triton Health &amp; Nutrition Inc</i>	14:00	<b>Development of microalgae as a source of alternative fuel</b> <i>Dr. D. K. Tuli, Centre Coordinator</i> <i>DBT-IOC Centre for Advanced Bio-Energy Research</i> <i>(Indian Oil Corp Ltd)</i>
10:15	Discussion followed by Coffee	14:30	<b>Commercialisation of New Bioactive Compounds from Microalgae with our closed PBR Technology</b> <i>Mr. Tony Dowd, Managing Director</i> <i>Supreme Biotechnologies Ltd</i>
10:45	<b>Glycerol production by Dunaliella</b> <i>Prof. Ami Ben Amotz</i> <i>Chief Scientific Adviser</i> <i>Nature Beta Biotechnologies Ltd</i>		

15:10	Discussion followed by Tea
15:40	<b>Update on Microalgae and Macroalgae projects in Indonesia</b> <i>Dr. Mujizat Kawaroe</i> <i>Bogor Agricultural University</i>
16:10	<b>Cost efficient Algae Production Bioreactor design – Maximum production at minimal costs</b> <i>Mr. Saumil Shah, Managing Director</i> <i>EnerGaia Co., Ltd.</i>
16:50	<b>Blue Ocean for Blue Biotechnology – An Experience from Marine Bioenergy Project in Korea</b> <i>Prof. Dr. Choul-Gyun Lee, Professor, Department of Biotechnology/Director, Marine Bioenergy (MBE) Research Center</i> <i>INHA University</i>
17:30	Discussion followed by Close of Day 1

## Day 2 - 29 Oct 2013, Tuesday

09:00	Chairman's Introduction
09:10	<b>Latest Innovation &amp; Achievement in Microalgae R &amp; D in TISTR</b> i) Selection optimization and outdoor cultivation for algae research <i>Dr. Aparat Mahakhant</i> <i>Research Scientist</i> <i>Thailand Institute of Scientific and Technological Research (TISTR)</i>  ii) Genetic and metabolic engineering <i>Sophon Sirisattha, Research Scientist</i> <i>Thailand Institute of Scientific and Technological Research (TISTR)</i>  iii) Design and process engineering for cultivation, harvest and extraction <i>Rujira Jitrwung, Research Scientist</i> <i>Thailand Institute of Scientific and Technological Research (TISTR)</i>
09:50	<b>Commercial cultivation of Haematococcus pluvialis for natural astaxanthin production – how to make a living from microalgae</b> <i>Prof. Dr. Oran Ayalon</i> <i>Research and Development</i> <i>Algatechnologies, Ltd</i>
10:20	Discussion followed by Coffee



10:50 **Economical harvesting of microalgae and production of lactic acid from algal lipid-extracted waste**

- Industrial exploitation of microalgae for Omega 3 enriched oils

*Dr . Mahabubur Rahman Talukder  
Senior Research Fellow*

*Institute of Chemical and  
Engineering Sciences, A\*star*

11:30 **Bringing novel algae based products to the health and beauty industry**

*Mr. Mike Rohlfesen, Director  
of Business Development*

*Heliae Development, LLC*

12:00 **Cultivating Microalgae of the 4th Generation – Heterotrophic Mixotrophic technology**

- Industrial exploitation of microalgae for Omega 3 enriched oils

*Mr. Pierre Calleja, President  
& Chief Executive Officer*

*Fermentalg SA*

12:30 Final Discussion. End of Conference

12:45 Lunch

*Optional Site Visit to  
TISTR Algal R & D Facilities*

13:30 Gather at Hotel Lobby

15:30 Arrive TISTR Technopolis  
*Visitors will see all TISTR Algal R&D Facilities including*

- Algal Culture Collection (ACC)
- Algal products that are already transferred to private sectors
- Algal co-products developed by TISTR
- Lab. cultivation system (Flat-plate photobioreactor & tubular photobioreactor)
- Outdoor 200,000 L cultivation system

17:00 Tour Finishes. Depart TISTR

19:00 Arrive back to Hotel.

Per Person Fee for Conference:	(USD)
Regular Fee for 1	1495.00
Group Fee for 3 or more	1195.00

**Site Visit to TISTR Algal R & D Facilities 75.00**  
(per person): 29 Oct

**3 Ways To Register**

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Program details published herein are confirmed as at 11/10/2013.  
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**“Advancing Algae with latest developments on Algae for bioplastics, glycerol, therapeutic proteins, astaxanthin and sustainable cosmetic ingredients”**

**Algae for Therapeutic Proteins**

Dr. Stephen Mayfield, director of the San Diego Center for Algae Biotechnology was recently quoted in an interview saying “There’s a tremendous opportunity to make therapeutic proteins in algae.”. “Because it’s agricultural, that means you have the ability to go to a very large scale and do it economically.”

For a long time, pharmaceutical companies have been making complex proteins at great cost and effort. And now with algae, the costs will be dropped dramatically and Triton is exploring this opportunity.

The company has just started to work on therapeutic proteins produced in algae, including the malaria vaccines, as well as anti-diarrheal proteins Hear from Dr Jason Pyle on the company’s step towards commercialising therapeutic proteins from Algae.

**Algae for Astaxanthin**

The global astaxanthin market is estimated to be around \$250 million annually.

AlgaTechnologies, a rapidly growing Israeli company specializing in the commercial cultivation of microalgae and a leading manufacturer of AstaPure willshare with us the cultivation of Haematococcus pluvialis, and optimising the conditions for efficient production of natural astaxanthin.

Asta Supreme on the other hand will talk about their specialized photobioreactor system that allows precise control over the growing environment, guaranteeing consistent high quality production of Astaxanthin. Sourced from their unique strain of algae cultivated in Nelson, New Zealand.

**Algae for Bioplastics**

Breakthroughs in bioplastics explored by Japanese scientists mainly from constituents extracted from Euglena, a species of microalgae. Dr Motonari Shibakami leading this research will share with us the technologies required to produce microalga-based plastics, including processes for efficient culture of Euglena and extraction of paramylon.

**Algae for Glycerol**

The European Commission latest grant for the new EC Project on Glycerol production by Dunaliella to be led by Prof Dr Ami Ben Amotz together with a consortium of 10 European project partners Dr Amotz the key scientist on this project will share with us more details on bringing the project into the path of successful R&D.

**6th AlgaeWorld ASIA** promises latest news and advancements on Algae around the world that will impact Asia.

*Highlights include*

- Happenings in Thailand
  - Update on Loxley Algae Biofuels Pilot Plant in Ratchaburi Province.
  - EnerGaia and their proprietary algae production system that makes it one of the most efficient producers of Spirulina.
- Updates on Microalgae and macroalgae projects in Indonesia
- Initiatives by India Oil Corporation in advancing algae based biofuels
- Newly branded NXT Fuels ( previously known as Aquaflow Bionomic ) is now in a position to take multi-biomass feed stocks through to drop in hydrocarbon fuels on an economic basis. Hear from the CEO, Nick Gerritsen how the company has now shifted from research and development through to market execution and project development.
- Heliae with its commitment on sustainable cosmetics will share novel based algae products for applications in the cosmetics industry

**Book your seats now with  
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