

21-24 September 2006 • Siam Paragon, Bangkok, Thailand

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inno BioPlast 2006

Bangkok, Thailand

bio-engineering | processing | new applications | emerging business | case studies

Asia's First Bioplastics Conference and Exhibition

International Conference and Exhibition on
Bioplastics - Technologies and Markets Towards the MDGs



Jointly Presented by



Organized by the National Innovation Agency, Thailand



bioPlast 2006 Strategic Partners



Key Contributors:



Key Participants:



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Exhibition Directory

inno
BioPlast 2006
Bangkok, Thailand

Organized by:

National Innovation Agency (NIA)
Ministry of Science and Technology, Thailand

Jointly Presented by:

United Nations Environment Programme
Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH
National Metal and Materials Technology Center, Thailand

Strategic Partners:

PTT Public Company Limited
Siam Cement Group
Thai Airways International

Key Contributors:

Advance Packaging Co., Ltd. (Specialty Tech Group)	NEC Corporation
BASF (Thai) Limited	Office of SMEs Promotion (OSMEP)
Bayer Thai Co., Ltd	Panasonic Siew Sales (Thailand) Co., Ltd.
BIOFOAM	Petroleum and Petrochemical College, Chulalongkorn University
Bio Green World Co., Ltd.	Pollution Control Department, Ministry of Natural Resources and Environment
Biodegradable Packaging for Environment Co., Ltd.	PRA – Plastics & Rubber Asia
Biodegradable Plastics Society (BPS), Japan	PTT Public Company Limited
CAEFF, Clemson University	PURAC Biochem bv.
European Bioplastics	Riken Vitamin Co., Ltd.
Federation of Thai Industries	Saha Kim Co., Ltd.
Green World Publication Co., Ltd.	Showa Highpolymer Co., Ltd.
Gunze Limited	Sony Corporation
Institute of Biotechnology and Genetic Engineering, Chulalongkorn University	Taiwan External Trade Development Council (TAITRA)
Japan External Trade Organization (JETRO)	Technology Promotion Association (Thailand-Japan)
Japan Society for the Promotion of Science (JSPS)	Thai Bioplastics Society (TBS)
KU-GREEN: Biodegradable Package	Thai Machinery Association
Kyoto Institute of Technology (KIT)	Thai Plastic Industries Association
M.C. Udomthrap Co., Ltd.	Thai Tapioca Development Institute
M.V.S. Trading Ltd., Part.	Thai Trade and Industry Media Co., Ltd.
Ministry of Foreign Affairs	Thailand Convention and Exhibition Bureau (TCEB)
National Academy of Sciences, USA	Thailand Environment Institute
National Economic and Social Development Board (NESDB)	The Board of Investment of Thailand (BOI)
National Institute of Advanced Industrial Science and Technology (AIST), Japan	TOYO INK MFG. Co., Ltd.
National Research Council of Thailand (NRCT)	UNITIKA
National Science and Technology Development Agency (NSTDA)	Vertical Chromatography Co., Ltd.
	Wei Mon Industry Co., Ltd.

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CONFERENCE THEMES

- **Global Overview**
- **Advances in Research**
- **International Standards and Regulations**
- **Downstream Applications, Products and Markets**

THE FORUM

The road to sustainable development will be built on innovation. Growing environmental awareness and regulatory pressures are driving research into alternatives to petroleum-based materials, and particularly into biodegradable materials from renewable resources. The imperative to protect our environment and dwindling natural resources was underscored by the UN Millennium Development Goals (MDGs) which were agreed at the United Nations Millennium Summit in September 2000 and supported by nearly 190 countries around the world.

InnoBioPlast 2006 aims to highlight the role that bioplastics can and will play in contributing to environmental protection and the principles of sustainable production and consumption in both developed and developing countries. The event will bring together key players in the global research and business communities, regulators and environmental organizations in order to share the latest technological breakthroughs, promote equitable regulatory frameworks and facilitate new partnerships and incentives to expand the industry.

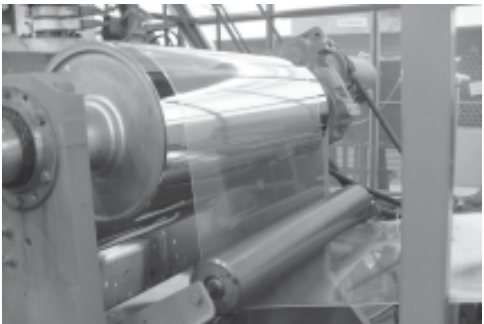
CONTEXT

The chemical and plastics industries have already invested heavily in these new technologies, and today, thanks to the fast pace of technological progress, bioplastics are on the verge of broad market introduction. Indeed, they are already finding broad application in packaging, electronics, automobiles and agriculture. Globally the number of manufacturers of bioplastic products is showing a strong upward trend, and more competition is expected to further drive the development of the sector.

This increasing interest is due in part to increasingly stringent regulatory environment driving the use of renewables, and also to the improved functionality of bioplastics and their growing market share, as well as reductions in price differentials between materials made of renewable raw materials and conventional materials. With improved manufacturing processes and cost-competitiveness, the long-term perspectives for bioplastics are promising.

Technical developments have allowed bioplastic materials to match conventional petroleum-based products in terms of quality and functionality, partly due to introduction of innovative combinations of biomaterials (*e.g.* multi-layered films) to create tailor-made functional characteristics that could for example improve and fine-tune the barrier characteristics of packaging materials.

Clearly, bioplastics hold great promise for implementing the principles of sustainable development and contributing towards achieving the MDGs. In order to accelerate this development it is important that awareness and commitment be generated at national and global levels, and that the industry can grow in order to remain competitive and sustainable. A supportive policy environment, implementation of standards, technology transfer and strategic partnerships all need to have common alignment and goals to ensure long term viability of the industry. Globally recognized speakers at InnoBioPlast 2006 will address these issues at national, regional and global levels.



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CONFERENCE PROGRAMME

Day 1: Thursday 21 September

Opening Session

- 08:00 - 09:00 **Registration**
- 09:00 - 10:00 **Opening ceremony - InnoMart / InnoBioPlast 2006**
- Report of the Permanent Secretary, Ministry of Science and Technology,
Dr Saksit Tridech
 - Opening address: Minister of Science and Technology
H.E. Dr Pravich Rattanapian
 - Welcome remarks: Mr Supachai Lorlowhakarn,
Director, National Innovation Agency
 - Welcome remarks: Mr Juergen Koch,
Country Director, GTZ Thailand
 - Welcome remarks: Dr Phietoon Trivijitkasem,
Chairman, Thai Bioplastics Society, Federation of Thai Industries
- 10:00 - 10:30 *Break and opening of InnoMart / InnoBioPlast 2006 Exhibition*

Keynote Session

- 10:30 - 11:00 **The role of innovation in addressing the Millennium Development Goals**
Mr Hiroshi Nishimiya, Deputy Regional Director, UNEP Asia-Pacific Region
- 11:00 - 11:30 **Global review of bioplastics industry-framework conditions and future markets**
Dr Jbran Reske, Vice Chairman, European Bioplastics, Berlin, Germany
- 11:30 - 12:00 **Thailand's policies to promote bioplastics**
Kh Arkhom Tempittayapaisith, Deputy Secretary General,
National Economic and Social Development Board, Thailand
- 12:00 - 13:30 *Lunch*

Global overview

- 13:30 - 14:00 **Bioplastics: from research to market**
Prof Dr Ramani Narayan, Professor of Chemical Engineering & Materials Science,
Department of Chemical Engineering & Materials Science, Michigan State University, USA

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- 14:00 - 14:30 **Bioplastics research in Thailand**
Prof. Krisda Suchiva, Deputy Director, National Metal and Materials
Technology Center (MTEC), Thailand
- 14:30 - 15:00 **Recent development of biodegradable and biobased plastics in Japan,
new identification and labelling system for biobased plastics in Japan**
Isao Inomata, Advisor, Biodegradable Plastics Society, Japan
- 15:00 - 15:15 *Break*

Advances in research

- 15:15 - 15:45 **Neo-PLA as high-performance bio-based polymers**
Prof Yoshiharu Kimura, Director, R&D Center for Biobased Materials,
Kyoto Institute of Technology, Japan
- 15:45 - 16:15 **Surface modification of PLA and PHA films using photochemistry**
Prof Douglas E Hirt, Center for Advanced Engineering Fibers and Films,
Clemson University, USA
- 16:15 - 16:45 **Effect of maleic anhydride on biodegradeable film of polybutenes
[adipate co-terephthalate] blended with thermoplastic tapioca**
Dr Raffi Paramawati, Indonesian Center for Agricultural Engineering
and Research and Development (ICAERD), Indonesia

Day 2: Friday 22 September

Advances in research (continued)

- 09:00 - 09:30 **Polyhydroxyalkanoates (PHAs) and their production**
Prof Gerhart Braunnegg, University of Technology Graz, Austria
- 09:30 - 10:00 **Novel bio-based and biodegradable polyamide 4**
Dr Sei-ichi Aiba, Group Leader, Bio-based Group, National Institute of
Advanced Industrial Science and Technology (AIST), Japan
- 10:00 - 10:30 **Rheology and processing of bio-based copolymers and blends**
Prof Graham M Harrison, Associate Professor, Department of Chemical
Engineering, Clemson University, USA

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10:30 - 10:45 *Break*

10:45 - 11:15 **Polyhydroxyalkanoates (PHAs), biodegradable plastic production, optimization and factors affecting PHA accumulation**

Assoc. Prof Dr. Songsri Kulpreecha, Department of Microbiology,
Faculty of Science, Chulalongkorn University, Thailand

International standards and regulations

11:15 - 11:45 **Compostable plastic regulatory framework**

Dr Glenn R Johnston, Manager-Global Regulatory Affairs, NatureWorks LLC, USA

11:45 - 12:15 **Biodegradability & compostability: what is the difference?**

Standards-impact on usage of biodegradable polymers

Bruno De Wilde, Organic Waste Systems NV, Gent, Belgium

12:15 - 13:30 *Lunch*

Downstream applications, products and markets

13:30 - 14:00 **PURAC : World class lactic acid products focussed towards PLA polymers**

Arno van de Ven, PURAC Co Ltd, Netherlands

14:00 - 14:30 **Using bioplastics in electronic products in Japan, and developing high-performance PLA/kenaf composites**

Dr Masatoshi Iji, Fundamental and Environment Research Laboratories,
NEC Corporation, Japan

14:30 - 15:00 **Medical applications for bioabsorbable polymers**

Prof Yoshito Ikada, Nara Medical University, and Dr Masakazu Suzuki,
Research Centre, Gunze Limited, Japan

15:00 - 15:15 *Break*

15:15 - 15:45 **Biomass-based biodegradeable inks for packaging**

Hideki Yasuda and Hideyuki Takeuchi, Toyo Ink Manufacturing Co Ltd., Japan

15:45 - 16:15 **Injection moulding for bio-based synthetic materials**

Dr Andreas Marek, Fraunhofer ICT, Germany

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- 16:15 - 16:45 **Advances in compounding with bioplastics**
Ikko Okoshi, Material R&D Center, Riken Technos Corporation, Japan

Day 3: Saturday 23 September

Downstream applications, products and markets (continued)

- 9:00 - 9:30 **Bioplastics in the automobile sector in Asia**
Katsuhiko Nakajima, Manager, Advanced Materials Development Section,
Toyota Motor Co, Japan
- 9:30 - 10:00 **BIONOLLE: An approach to more environmentally-friendly green plastics.**
Dr Yasushi Ichikawa and Tatsuya Mizukoshi, Showa Highpolymer Co., Ltd., Japan
- 10:00 - 10:30 **Ecoflex and renewable materials**
Dr Dietmar Heufel, Head of Global Business Management
(Ecoflex / Ecovio / Styroflex), BASF AG, Germany
- 10:30 - 10:45 *Break*
- 10:45 - 11:15 **Recent developments in polylactic acid: TERRAMAC**
Dr Shigemitsu Murase, Terramac Business Development Department,
Unitika Ltd, Japan
- 11:15 - 11:45 **Sony's vegetable-based plastics**
Hiroyuki Mori, Environmental Affairs Department, Sony Corporation, Japan

Closing Ceremony

- 11:45 - 12:00 **Closing address**
H.E. Dr Pravich Rattanapan, Minister of Science and Technology, Thailand

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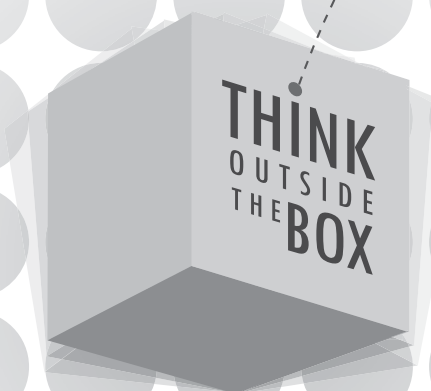
Day 3: Saturday 23 September

Satellite Programme: MTEC- TU Graz Workshop On Development Of Environmentally Friendly Degradable Plastics From Renewable Resources In Thailand

Hosted by MTEC-UNIDO/ICS/NIA and TU Graz, Austria

- 09:00 - 09:20 **Introduction to environmentally degradable polymers**
Dr Krisda Suchiva, MTEC, Thailand
- 09:00 - 09:50 **From renewable resources to products: definition of raw materials**
Prof Gerhart Braunegg, TU Graz, Austria
- 09:50 - 10:20 **General problems of renewable based materials**
Dr Michael Narodoslawsky, TU Graz, Austria
- 10:20 - 10:40 *Break*
- 10:40 - 11:10 **Basics of biotechnological production**
Prof Gerhart Braunegg, TU Graz, Austria
- 11:10 - 11:40 **Life cycle analysis and assessment**
Dr Michael Narodoslawsky, TU Graz, Austria
- 11:40 - 12:10 **Technical and economic aspects of cleaner production**
Dr Hans Schnitzer, TU Graz
- 12:10 - 13:30 *Lunch*
- 13:30 - 14:00 **Process network optimization**
Dr Michael Narodoslawsky, TU Graz, Austria
- 14:00 - 14:30 **EDPs in Brazil: a report**
Prof Gerhart Braunegg, TU Graz, Austria
- 14:30 - 15:00 **Agro-based zero-emission systems**
Dr Hans Schnitzer, TU Graz
- 15:00 - 15:20 *Break*
- 15:20 - 15:40 **Raw materials available in Thailand**
Dr Pawadee Methacanon, MTEC
- 15:40 - 16:00 **Standard testing for polymer biodegradability in Thailand**
Dr Thanawadee Leejarkpai, MTEC
- 16:00 - 17:00 **Discussion and conclusion**

Connecting Knowledge



NATIONAL INNOVATION AGENCY
MINISTRY OF SCIENCE AND TECHNOLOGY

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FLOOR PLAN



ZONE A

- A1 Advance Packaging Co.,Ltd. (Specialty Tech Group)
- A2 M.V.S. Trading Ltd., Part
- A3 Wei Mon Industry Co.,Ltd.
- A4 Saha Kim Co.,Ltd. (BIO Mat.)
- A5 BASF (Thai) Limited
- A6 PURAC Biochem bv.
- A7-8 SHOWA Highpolymer Co.,Ltd.
- A9-10 UNITIKA
- A11-12 Gunze Limited
- A13-14 Biodegradable Packaging for Environment Co.,Ltd.
- A15-16 Bio Green World Co.,Ltd.

- A17-18 Thai Machinery Association
- A19 NEC Corporation
- A20 Sony Corporation
- A21-22 TOYO INK MFG. Co.,Ltd
- A23-24 Riken Vitamin Co.,Ltd.
- A25 BIOFOAM
- A26 M.C. Udomthrap Co., Ltd.
- A27-28 Siam Cement Group (SCG)
- A29-30 Panasonic Siew Sales (Thailand) Co., Ltd.
- A31 Biodegradable Plastics Society (Japan)
- A32 National Institute of Advanced Industrial Science and Technology (AIST)



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ZONE B

- B1 KU-GREEN: Biodegradable Package
- B2 Thai Plastic Industries Association
- B3-4 National Metal and Materials Technology Center (MTEC)
- B5-8 PTT Public Company Limited (PTT)
- B9 Affiliated with Clemson University, MIT, Clark Atlanta
- B10 GTZ – German Technical Cooperation
- B11 Kyoto Institute of Technology (KIT)
- B12 Technology Promotion Association (Thailand-Japan)/TPA
- B13-14 Thai Trade and Industry Media Co.,Ltd.
- B15 PRA – Plastics & Rubber Asia
- B16 Pollution Control Department
- B17 The Board of Investment of Thailand (BOI)

- B18 Thailand Environment Institute
- B19-20 Thai Bioplastics Society (TBS)
- B21 The Petroleum and Petrochemical College, CU
- B22 Institute of Biotechnology and Genetic Engineering, Chulalongkorn University
- B23 The Thai Tapioca Development Institute (TTDI)
- B24 The National Science and Technology Development Agency (NSTDA)
- B25 Vertical Chromatography Co.,Ltd.
- B26 Green World Publication Co.,Ltd.
- B29-30 Thai Airways International Public Company Limited

ZONE S

- S1 National Innovation Agency (Organic Farming)

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A1

Advance Packaging Co.,Ltd. (Specialty Tech Group)



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Website: www.advance-pack.co.th

Contact Person and Email:

Mr. Srisuksret, srisuksret@advance-pack.co.th

Mr. Suntipong, suntipong@advance-pack.co.th

Ms. Chatsarun, chatsarun@advance-pack.co.th

Ms. Apaimanee, apaimanee@advance-pack.co.th

COMPANY PROFILE

Established in 1989 with 100% Thai shareholders. Company's growth and success are mainly supported for electronics, automotive, semiconductor industrial, etc. Products range of LDPE and HDPE packaging such as clean room bags, generic bags, packaging film, especially ESD anti-static bag that meets eletro-static require for packing the static sensitive components and the new products is 100% biodegradable plastic bags and film. High quality products with better services are the company policy. We are under quality standard ISO 9001:2000 and attainable ISO 14001:2004 in the end of 2006. Factory area is 5,600 Sqm., building 1,125 Sqm., 170 employees. We plan to promote to use bio-plastic replacement chemical synthesis plastic for safety environment and increasing production line of clean-room product for reduce imported of goods.

M.V.S. Trading Ltd., Part

73/1 Soi Yasoob 1 Viphavadeerangsit Road,

Chomphon, Jathujak,

Bangkok 10900, Thailand.

Tel.: +66-2-272-1610-5

Fax: +66-2-272-1645

Website: www.mvstrading.com

Contact Person: Mr. Monchai Eawsivikul

Email: info@mvstrading.com, sales@mvstrading.com



COMPANY PROFILE

M.V.S. Trading Ltd., Part. is the manufactures and exports thermoformed products and injection products for the catering and retail trades. The company's main exported plastic items comprise thermoforming packages, garment accessories, including security locks, are exported to Latin America and well-recognized countries in Western Europe and the Asia Pacific.

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偉盟工業
WEI MON INDUSTRY CO.,LTD.

Wei Mon Industry Co.,Ltd.

2 Floor, No. 57, Shingjung Road,

Neihu Chiu, Taipei, Taiwan.

Tel.: +886-2-2795-3131

Fax: +886-2-2791-9966

Website: www.weimon.com.tw and www.pla.tw

Contact Person: Sara Sun/Assistant Manager

Email: sarasun@weimon.com.tw

COMPANY PROFILE

Founded in 1987, Wei Mon has devoted to biodegradable material development for almost 9 years. With years experiences in PLA field, Wei Mon is proud to present its high quality PLA sheet, film, and application of all kinds.

Saha Kim Co.,Ltd. (BIO Mat.)

55/1 Ladpraw 88 Road, Wangtonglang,

Bangkok 10310, Thailand.

Tel.: +66-2-538-0799, +66-2-538-3627

Fax: +66-2-538-3226

Contact Person: Ms. Siriprapa Nimkittikul and

Mr. Nattapon Chaisuresee

Email: Siriprapa_nk@yahoo.com



Environment-Friendly and Non-Toxic Product

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The Chemical Company

BASF (Thai) Limited

23rd Floor, Emporium Tower
622 Sukhumvit 24 Road, Klongton,
Klongtoey, Bangkok 10110, Thailand.

Tel.: +66-2-664-9222

Fax: +66-2-664-9257

Website: www.basf.com

Contact Person: Mr. Vera Prapanirin

Email: vera.prapanirin@basf.com

COMPANY PROFILE

BASF is the world's leading chemical company: The Chemical Company. Its portfolio ranges from chemicals, plastics, performance products, agricultural products and fine chemicals to crude oil and natural gas. As a reliable partner to virtually all industries, BASF's intelligent system solutions and high-value products help its customers to be more successful. BASF develops new technologies and uses them to open up additional market opportunities. It combines economic success with environmental protection and social responsibility, thus contributing to a better future. BASF has approximately 94,000 employees and posted sales of more than 42.7 billion EURO in 2005. BASF shares are traded on the stock exchanges in Frankfurt (BAS), London (BFA), New York (BF) and Zurich (AN). Further information on BASF is available on the Internet at www.basf.com.

PURAC Biochem bv.

Arkelsedijk 46, PO box 21,
4200AA Gorinchem, The Netherlands.

Tel.: +31-183-695695

Fax: +31-183-695600

Website: www.purac.com

Contact Person: Mr. Hans van der Pol

Email: pnl@purac.com

**COMPANY PROFILE**

PURAC is the world's largest and most experienced manufacturer of natural lactic acid and lactates with four factories around the globe (America, Brazil, Spain and the Netherlands), and continued expansion plans: a fifth lactic acid factory is being constructed in Thailand.

PURAC products are used in many applications: food, feed, industrial, personal care and pharmaceutical markets. Lactic acid, both L(+) and D(-), is also used as a monomer for the production of high quality PLA (polylactic acid). PLA is a very promising new application for PURAC: the bio-plastics industry is expected to grow strongly in the coming years.

PURAC's production capacity, experience in manufacturing, and know how on fermentation and purification of Lactic Acid, make PURAC the best partner to supply L(+) and D(-) lactic acid to the future major players in the PLA industry.

Please do visit our booth for further discussion

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SHOWA Highpolymer Co.,Ltd.



SHOWA HIGHPOLYMER CO., LTD.

Kanda Chuo Bldg. 3-20,
Kanda Nishiki-cho, Chiyoda-ku,
Tokyo 101-0054, Japan.

Tel.: +81-3-3292-2730

Fax: +81-3-3233-0137

Website: www.shp.co.jp

Contact Person: Mr. Tatsuya Mizukoshi
(Business Planning Dept.)

Email: planning@shp.co.jp

COMPANY PROFILE

Showa Highpolymer is a leading comprehensive resins manufacture, which was founded in 1937 and has leveraged wide range of accumulated, proprietary technologies in the effort to develop sophisticated products that allow human to live in better harmony with nature.

Showa Highpolymer sells several specialty resins like Unsaturated polyester resin, Vinyl ester resin, Synthetic resin emulsions, and Phenolic resin. Especially, Showa Highpolymer is famous as a pioneer of biodegradable resin "Bionolle", which started industrial production for the first time in Japan. And also one of the founder companies of Biodegradable Plastic Society (BPS) in Japan.

UNITIKA

4-1-3, Kyutaro-machi,
Chuo-ku, Osaka 541-8566, Japan.
Tel.: +81-6-6281-5245
Fax: +81-6-6281-5849
Website: www.unitika.co.jp
Contact Person: Shigemitsu Murase
Email: sg-murase@unitika.co.jp

UNITIKA

COMPANY PROFILE

Unitika Group is involved in six main business segments: four segments handled by Unitika (Polymers, Environment, Advanced Materials, and Health and Amenity), and two segments by Group companies (Fibers and Textiles, and Group support (trading and distribution)). By combining the abilities of the Group companies, Unitika is seeking to develop and improve these six business segments. Using the fruits of these efforts, we would like to offer consumers a better quality of life while helping to protect the future of the planet. Unitika's goals for the future are a vision shared throughout the entire Group."

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GUNZE

Gunze Limited

Nihonbashi 2-10-4, Chuo-ku,

TOKYO 103-0027, Japan.

Tel.: +81-3-3276-8718

Fax: +81-3-3276-8696

Website: www.gunze.co.jp/medical/index.html

Contact Person: Mr. Takanobu Kobayashi

(Sales Division)

Email: takanobu.kobayashi@gunze.co.jp

COMPANY PROFILE

GUNZE LIMITED was established in 1896. GUNZE produces underwear, Plastic films, Electronic components, Engineering plastics, and Medical devices.

GUNZE established Medical Materials Center in 1988. The center manufactures and provides Bioabsorbable Medical Devices of high quality and safety. Our products are PGA suture materials, P(LA/CL) monofilament suture materials, PGA Felt, Artificial Dermis, PLLA Bone Fixation Device, and Artificial Dura Mater, etc. All the products are exported worldwide. Medical facility has ISO13485 certificate. GUNZE also has an institute for medical products. The center and an institute are making continuous efforts to achieve quality improvement and development of new medical devices.

Biodegradable Packaging for Environment Co.,Ltd.

46/151 Moo 12 Nuanchan Road,

Klongkhum, Bungkhum,

Bangkok 10230, Thailand.

Tel.: +66-2-944-5512

Fax: +66-2-944-5282

Website: www.thaibpe.com

Contact Person: Mr. Surasak Luangaramsri, surasak@mdsyn.com

and Ms. Araya Khantaprab, araya@mdsyn.com



COMPANY PROFILE

BPE is proud to introduce a newly developed pulp tableware, a breakthrough alternative to plastics and styrene foam. With our advanced technology, we offer pulp tableware products which are 100% eco-friendly, non toxic contamination, biodegradable in 45 days, no tree or forest products, and very cost competitive.

BPE tableware products offer more than 70 different models including plates, trays, lunch boxes, bowls and cups plus custom service to help developing models that fit to any of your customers requirements.

Features: 100% Eco-friendly, 100% Biodegradable in 45 days, 100% Food safety and non toxic contamination, 100% Disposable, 100% Microwavable, oven-able, 100% Applicable for hot and cold food, 100% now wood fiber and 100% Chlorine free pulp material (ECF)

Technology & Materials: BPE production process cycle is very simple, efficient, and yet eco-friendly. Using purely natural non wood fiber, our production process produces no waste products except steam. Our clean manufacturing process is perfect for all food industries, employing no harsh chemicals. Every single piece of products will be UV pasteurized before sending to you.

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Bio Green World Co.,Ltd.

768 Moo 3, Soi Tanpooying,
Teparak Road, Samutprakarn 10270, Thailand.

Tel.: +66-2-758-1492-9

Fax: +66-2-384-1945

Website: -

Contact person: Benjaporn Temprom

Email: biogreenworld@gmail.com



COMPANY PROFILE

We, Bio Green World Co., Ltd. are a biodegradable packaging manufacturer in Thailand. Bio Green World is a joint-venture company formed between a group of Thailand and Malaysia investors. As the natural ecosystems are being degraded by an increasing in the using of plastics and non-degradable items, we want to raise the awareness of these issues encountering us and also awareness of personal choices how they impact our environment. At Bio Green World we aim to replace the conventional plastic food container. With our mission to create and promote the usage of single-use biodegradable food containers, we do offer high-quality products which can be composed naturally and environmental friendly. Bio Green World is a right choice for all companies that need to save the environment and make the world green.

Thai Machinery Association

86/6 Bubeau of Supporting Industries Development Building,

Soi Trimitr, Rama IV Road,

Klong Toey, Bangkok 10110, Thailand.

Tel.: +66-2-712-2096

Fax: +66-2-712-2979

Website: -

Contact Person: Ms. Pannarat Panduang

Email: thaimachinery@yahoo.com, thaimachinery@gmail.com



COMPANY PROFILE

Thai Machinery Association was found since 2002. We have 213 machinery manufacturers in Thailand are members of TMA.

Thai Machinery Association – Objectives

- Strengthen local machinery industry
 - Identify business opportunity and work in collaboration with the related Authorities to gain support and remove the development obstacle
 - Combine capability and competency of members and establish appropriate machines using clusters to replace the import ones.
 - Promote use of locally produced machines using TMEC as a marketing tool
- Thai Machinery Association – Regular Activities
- Monthly meeting of Board Committee and active members to review administration, development progress, trade and production situation
 - Cluster visit and Educational trip
 - Public communication via. book, website and direct contacts
 - Work with related associations/institutes and govt. agencies on agenda of machinery development

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The logo for NEC Corporation, consisting of the letters "NEC" in a bold, black, sans-serif font.

NEC Corporation

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Fax: +81-2-9850-2631

Website: www.nec.co.jp

Contact Person: Dr. Masatoshi Iji

(Research Fellow)

Email: m-iji@bk.jp.nec.com

COMPANY PROFILE

NEC Corporation's major operations are IT solutions business, network solutions business, and electron and devices business. It has annual sales of \$41,239 million (NEC Group) and 154,180 employees (NEC Group).

Sony Corporation

4-16-1 Okata, Atsugi-shi,

Kanagawa 243-0021, Japan.

Tel.: +81-4-6226-2545

Fax: +81-4-6226-2437

Website: www.sony.net

Contact Person: Hiroyuki Mori

Email: hiroyuki.mori@jp.sony.com

The Sony logo is displayed in a bold, black, sans-serif font.

COMPANY PROFILE

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TOYO INK

TOYO INK MFG. Co.,Ltd.

3-13, Kyoubashi 2-chome,
Chuo-ku, Tokyo 104-8377, Japan.

Plastic Colorant Div.

Tel.: +81-3-3272-2631 Fax: +81-3-3272-0843

Email: masamitsu.ogiwara@toyoink.co.jp

Planning Dept., Packaging &

Processing Business HQs

Tel.: +81-3-3272-0891 Fax: +81-3-3272-0663

Email: Shingo.harako@toyoink.co.jp,

Natural Products Div.

Tel.: +81-3-3272-0902 Fax: +81-3-3272-7308

Email: takeuchi@toyoink.co.jp

Website: www.toyoink.co.jp

COMPANY PROFILE

TOYO INK is a Japanese technology development company with a worldwide reputation as a leading manufacturer of printing inks and various chemical products. Our product range includes specialty technologies based on organic pigment synthesis, including colorants for most of today's flat TV displays. Our products are known for their precision and stability, and for unsurpassed reliability and superior performance. They are being developed based on our core know-how about colorants, polymer and optoelectronic materials.

Founded almost 100 years ago, TOYO INK has its corporate headquarters in Japan with its manufacturing facilities and sales offices located throughout the world. With over 6000 employees worldwide, we are one of the most important companies in the printing industry. From the beginning, TOYO INK strives to improve people's lives and cultures by cooperating with local people, whilst respecting the safety, environment and health in all of our corporate activities.

Riken Vitamin Co.,Ltd.

Rikevita (Singapore) Pte Ltd

100 Beach Road, #24-01/03 Shaw Tower,

189702 Singapore.

Tel.: +65-6298-3505

Fax: +65-6298-3932, +65-6298-3865

Website: www.rike-vita.co.jp/int/

Contact Person and Email: Mr.Yasushi Tokoro,

tokorvs@singnet.com.sg and Mr.Ryo Ishii,

ishiiryo@singnet.com.sg and ryo_ishii@rike-vita.co.jp

RIKEN VITAMIN

COMPANY PROFILE

In collaboration with Osaka University, Riken Vitamin has developed a new technology which enables the control of crystal size polylactide resin in nano order. Based on this technology, Riken Vitamin will be making a presentation on [Transparent flexible polylactide resin compound Rikemaster-GPR-075]

Polylactide resin, considered as rigid plastic, is a crystalline resin. When it is softened by compounding with plasticizer, it results in lower glass transition point (Tg). As for softened polylactide resin which is near room temperature. When Tg is lowered, crystallization slowly occurs and results in the alteration of part property such as degradation of transparency and increase in modulus (=hardening).

Riken Vitamin has developed a plasticizer matching the compatibility of polylactic acid and applied this technology which enables the control of crystal size in nano order to sustain the transparency, a feature of polylactide resin. The plasticizer has also succeeded in providing softening as well.

This [transparent flexible polylactide resin compound Rikemaster-GPR-075] based on this technology will be developed into soft application which requires transparency such as wrapping film and agricultural film.

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BIOFOAM

BIOFOAM

FRIEND of NATURE... for BETTER LIFE

Jazzy Creation Co.,Ltd.

1201/92 Ladprao 94 (Panjamitr),

Ladprao Road, Wangthonglang,

Bangkok 10310, Thailand

Tel.: +66-2-530-7920

Fax: +66-2-530-7764

Website: -

Contact Person: Mr. Pattawit Onkchareon;

Mobile: +66-81-753-8929

Email: pattawit@jazzycreation.com,

sales@jazzycreation.com

COMPANY PROFILE

Jazzy creation Co., Ltd distributes Biofoam as an innovative product which develops for environmental friendly packaging that can be fully biodegradable and compostable. Our technology has been long developed in Germany since year 1994. Biofoam has been presenting its products to the world in order to be one of choices for those who care about their environment.

We can make all kinds of packaging to satisfy your need. If you are interested in saving your environment, we are in to help you accomplish your wish.

Biofoam offers a variety of benefits

- Save for the environment with fully biodegradable properties.
- Good for healthy with hygienic processes and food graded material.
- All purpose with hot and cold food & drink

Biodegradability and complete compostability. Solve the difficulties with waste disposal. Biofoam trays are made from renewable annual growth provides raw material that helps to preserve the natural resources of the world.

M.C. Udomthrap Co.,Ltd.

7/161 Moo 2, Songprapa Road,

Seegun, Donmuang,

Bangkok 10210, Thailand.

Tel.: +66-2-922 3934 - 5

Fax: +66-2-922 3959

Website: -

Contact Person: Ms. Hathaikorn Sattabongkot

(Managing Director)

Email: s_hathaikorn@yahoo.com



COMPANY PROFILE

M.C. UDOMTHRAP Co.,Ltd. A new generation of wholly-owned Thai company, offers innovation and cutting-edge technology to the world. Since early studies of natural wood and fiber-plastic composites in the early 90's, interests had since only escalate. The successful insemination of plastic formulas into wood, a traditional decoration, building and construction material, has given the unforgiving elements functional and desirable properties. The resulting breakthrough formula, a much anticipated success: "Arto Wood", is a nation first. "Arto Wood" is fire-retardant, water-resistant, and dimensional stability among other advantageous properties and with a growing concern for global tropical rainforest stock. "Arto Wood" offers the world perfect solution.

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Siam Cement Group (SCG)



1 Siam Cement Road, Bangsue,

Bangkok 10800, Thailand.

Tel.: +66-2-586-4444

Fax: +66-2-586-2974

Website: www.siamcement.com

Contact Person: Parin Khantahiran

Email: parink@cementthai.co.th

COMPANY PROFILE

The Siam Cement Public Company Limited was established nearly 100 years ago following a Royal Decree of His Majesty King Rama VI as a means to eliminate reliance on imports of cement, as well as taking fuller advantage of the natural resources available in the country. At present, SCG has 5 core businesses focused in chemicals, paper, cement, building materials, and distribution. This continued development has made SCG a major force in the introduction of new technology and skills to Thailand, as well as substantial human resource development. All SCG businesses promote innovation in its products/services, processes, and business models to delight consumers.

**Panasonic Siew Sales
(Thailand) Co.,Ltd.**

75 Seri Thai Road, Kannayao,
Kannayao, Bangkok 10230, Thailand.

Tel.: +66-2-731-8888

Fax: +66-2-731-9617

Website: www.panasonic.co.th

Contact Person: Ms. Prakaisri Deechongkit,
prakaisri.deechongkit@th.panasonic.com

and Ms. Anchalee Ruenrattanakul,
anchalee.ruenrattanakul@th.panasonic.com

Panasonic
ideas for life**COMPANY PROFILE**

We are sales company selling products in the categories of battery, lighting, flashlight, office automation, audio and visual equipment. Our products are available for sales in dealer shops and modern trade outlets nationwide.

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Biodegradable Plastics Society (Japan)



Grande Bldg.

026-9, Hacchobori 2-Chome,
Chuo-ku, Tokyo 103-0032, Japan.

Tel.: +81-3-5541-2470

Fax: +81-3-5541-2737

Website: www.bpsweb.net

Contact Person: Isao Inomata (Adviser)

Email: inomataiso@jba.or.jp

COMPANY PROFILE

Biodegradable Plastics Society, Japan (BPS) was established in 1989. With more than 200 membership companies, BPS has been making many efforts to promote the recognition and the business development of “Biodegradable Plastics” and “Biomass-based Plastics” in Japan.

National Institute of Advanced Industrial Science and Technology (AIST)

1-8-31 Midorigaoka, Ikeda,

Osaka 563-8577, Japan.

Tel.: +81-7-2751-9522

Fax: +81-7-2751-9628

Website: www.aist.go.jp

Contact Person: Sei-ichi Aiba

Email: aiba-seiichi@aist.go.jp



COMPANY PROFILE

AIST is not a government institution, although funded by Japanese government to large extend. AIST has been contributing society through continuous advancement in technologies and supports to Japanese industries since 1876. AIST has over 50 autonomous research units in various innovative research fields and about 2500 research scientists are working in AIST. Missions of AIST are as follow, and AIST members are making efforts to accomplish the missions.

1. Contribution to a sustainable society.
2. Contribution to industrial competitiveness.
3. Contribution to local industrial development.
4. Contribution to industrial technology policies.

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KU-GREEN: Biodegradable Package



50 Phaholyothin road,

Chatuchak, Ladyao,

Bangkok 10900, Thailand.

Tel.: +66-2-942-8795-7

Fax: +66-2-942-8797

Website: <http://kugreen.ku.ac.th>

Contact Person: Assoc. Prof. Ngamtip Poovarodom, Ph.D.

Email: fagintp@ku.ac.th

COMPANY PROFILE

Kasetsart University has established KU-GREEN Venture Business for about 4 years to implement the technology of biodegradable starch-based package. This technology has been issued both Thai patent and US patent. KU-GREEN Venture Business is aimed at promoting and transferring the technology as well as manufacturing KU-GREEN product at commercial scale.

Thai Plastic Industries Association

127/2 Phaya Mai Road, Somdejchaophaya,

Klongsan, Bangkok 10600, Thailand.

Tel.: +66-2-438-9457-8, +66-2-863-0802-3

Fax Number: +66-2-437-2850

Website: www.tpia.org, www.plastictpia.org

Contact Person: Kittipong Vuthirong

(Association Manager)

Email: manager@tpia.org



COMPANY PROFILE

The Thai Plastic Industries Association is a non-profit organization set up with the objective to serve its members and the general public by providing them with data and information on the Thai plastics industry.

The Association also acts as a bridge linking the government and private sectors with the plastic industrialists in many aspects ranging from promoting business contacts among members and non-members, to enhance business clusters, to educate the general public on new developments of plastic industry, such as bio-plastics, nano-plastics and so on.

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National Metal and Materials Technology Center



114 Thailand Science Park, Paholyothin Road,

Klong 1, Klong Luang,

Pathumthani 12120, Thailand.

Tel.: +662-564-6500

Fax: +66-2-564-6369

Website: www.mtec.or.th

Contact Person: Mr. Panya Chayarukn

Email: panyac@mtec.or.th

COMPANY PROFILE

The National Metal and Materials Technology Center (MTEC) is operating as one of the technology centers under the National Science and Technology Development Agency (NSTDA), the Ministry of Science and Technology (MOST).

MTEC was founded as a special kind of government organization which supports materials science and technology research and development, including manufacturing and design for both public and private companies and institutions

PTT Public Company Limited (PTT)

555 Vibhavadi Rangsit Road,

Chatuchak, Bangkok 10900, Thailand.

Tel.: +66-2-537-2000

Fax: +66-2-537-2174

Website: www.pttplc.com

Contact Person: Corporate Public Relations Department

Email: corporate@pttplc.com



COMPANY PROFILE

PTT Public Company Limited conducts an integrated gas business, trades and sells petroleum & petrochemical products and invests in petrochemicals & refining business in Thailand through an investment and joint venture by its subsidiaries. PTT Group is one of the top leaders of the petrochemicals and refining business not only in Thailand but also in Asia-Pacific by having the total integration business starting from producing and trading of petroleum and petrochemicals products and providing logistics services including utilities. The integration of gas, petrochemicals and refining business enables PTT Group to efficiently manage national resources.

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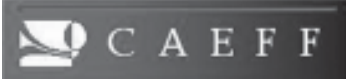
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**CAEFF, Center Advanced Engineering
Fibers and Film, Affiliated with
Clemson University, MIT, Clark Atlanta**



301 Rhodes, Clemson

SC 29634-0910.

Tel.: +864-656-1182

Fax: +864-656-4557

Website: www.caeff.com

Contact Person: Mr. Steve Sefick

Email: Sefick3@clemson.edu

COMPANY PROFILE

Engineering Research Center partially sponsored by NSF to propel Industry in Films and Fiber through research leading to value add processes and modeling of those processes.

GTZ—German Technical Cooperation

193/63 Lake Rajada Office Complex 16th floor,

New Ratchadapisek Road,

Klong Toey, Prakhong,

Bangkok 10110, Thailand.

GTZ Bangkok Office

Tel.: +66-2-661-9273 Fax: +66-2-661-9282

GTZ Eco-Efficiency Component c/o MNRE

Tel.: +66-2-298-2768 Fax: +66-2-298-2629

Website: www.gtz.de/thailand, www.ecoefficiency.info

Contact Person: Burghard Rauschelbach, burghard.rauschelbach@gtz.de

and Piyathip Eawpanich, piyathip.eawpanich@gtz.de



COMPANY PROFILE

GTZ (German Technical Cooperation) is a service enterprise for sustainable development. In Thailand, GTZ Bangkok has a track record of more than 30 years. GTZ provides technical, managerial and advisory services that support complex development and reform processes.

In the context of the UN Millennium Development Goals, GTZ works in particular on behalf of the German Ministry for Economic Cooperation and Development, to improve living conditions in developing countries through better management of infrastructure-energy, water, waste and transport. The responsible and innovative use of natural resources and eco-efficient performance are key technical GTZ competencies for sustainable development.

Represented in more than 120 countries and with about 10000 employees worldwide, GTZ has access to a large network and pool of expertise of international best practice and state of the art know-how.

GTZ implements projects for the German Government, and operates on behalf of the European Commission, UN organisations, World Bank, Asian Development Bank, national governments and private-sector clients.

Kyoto Institute of Technology (KIT)



Hashigami-cho, Matsugasaki, Sakyo-ku,

Kyoto 606-8585, Japan.

Tel.: +81-7-5724-7804

Fax: +81-7-5712-3956

Website: www.kit.ac.jp/english/index.html,

www.cbm.kit.ac.jp/E-1.html

Contact Person: Yoshiharu Kimura

(Professor of Department of Biomolecular Engineering)

(Directors of R&D Center for Biobased Materials Center

for Fiber and Textile Science)

Email: ykimura@kit.ac.jp

COMPANY PROFILE

KIT is committed to generating, disseminating, and preserving knowledge in science, technology and art that will serve the whole world in the 21st century. Its key concepts are 'cultivation of both intellect and aesthetic appreciation in students,' 'care of the natural environment,' and 'collaborations between art and science.' By developing an artistic mind and a rich humanity, which underlie Japan's manufacturing traditions, into theories of technology and design, *KIT* strives to establish 'people-oriented technologies' and thus contribute to the betterment of humankind.

R&D Center for Bio-based Materials (CBM) that was established in May of 2005 is dedicated to the creation of new ideas in developing bio-based materials by conducting related research and development with both academic and industrial partners. *CBM* will also provide research-based education to engineers outside universities as well as to the students of *KIT*. Any cooperative work with the center staffs will be highly encouraged.

Technology Promotion Association (Thailand-Japan)/TPA

Head Office: 5-7 Soi Sukhumvit 29,

Sukhumvit Road, Kwang Klongtoey-nua,

Khet Wattana, Bangkok 10110, Thailand.

Tel.: +66-2-258-0320-5 Fax: +66-2-258-6440, +66-2-259-9117

Brach office: 534/4 Soi Pattanakarn 18, Pattanakarn Road,

Kwang Pravet, Khet Suanluang, Bangkok 10250, Thailand.

Tel: +66-2-717-3000-29 Fax: +66-2-719-9479

Website: www.tpa.or.th

Contact Person: Ms. Jitrapat Boonchalieo

Email: member@tpa.or.th



COMPANY PROFILE

TPA was established with an aim to promote and transfer knowledge and new technology to Thai industry. From time to time TPA becomes an expert in administrating Technology and Management related training and seminar courses, Environment and Product Testing Center, Web Based Business Development, TPA School of Language and Culture teaching Japanese – Thai and English and Technology related text and journal publication.

TPA provides 6 main activities as follows:

- I. Publishing Department
- II. TPA School of Language and Culture Department
- III. Education and Training Department
- IV. Industrial Service Department
- V. Web Based Business Development Department
- VI. Enterprise Diagnosis and Consultation Department (Shindan)

Apart from these 6 main activities, TPA provides other services such TPA Robot Contest Thailand Championship Project, TPA Youth Robot Contest, Education & Culture Festival, TPA Books Centre Shop and TPA Membership, Thailand Quality Prize and Thailand 5S Award

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Thai Trade and Industry Media Co.,Ltd.

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Prakhanong, Nua Wattana,

Bangkok 10110, Thailand.

Tel.: +66-2-714-2954

Fax: +66-2-714 2944

Website: www.ttimmag.com

Contact Person: K. Kulaboon

Email: kulaboon@ttimmag.com

COMPANY PROFILE

Thai Trade & Industry Media (TTIM) Co.,Ltd. Founded in Thailand in 2002. It is a joint venture of Business and Manufacturing Media Co., Ltd. (Thailand) and Eastern Trade Media Pte., Ltd (a listed media company in Singapore) conducting publishing business. TTIM is the publisher of famous manufacturing magazines namely-Asia Pacific FOOD INDUSTRY THAILAND, Metalworking EQUIPMENT NEWS THAILAND and PLANT MANAGER.

PRA—Plastics & Rubber Asia

The Stables, Willow Lane,

Paddock Wood, Kent TN12 6PF, United Kingdom.

Tel.: +44-1892-839209

Fax: +44-1892-839210

Website: www.plasticsandrubberasia.com

Contact Person: Tim Ornellas, Publisher

Email: tim@plasticsandrubberasia.com



COMPANY PROFILE

For the last 21 years, PRA has been providing the processors of plastics and rubber throughout the booming Asia Pacific region with a regular supply of high quality information on technology, marketing information, machinery and materials news. Recognised as the authoritative source of information for the plastics and rubber industries in Asia, PRA is published 8 times year.

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Pollution Control Department



92 Soi Phaholyothin 7,
Phayathai, Bangkok 10400, Thailand.

Tel.: +66-2-298-2082-84

Fax: +66-2-298-2085

Website: www.pcd.go.th

Contact Person: Mr. Nichon Kongpeth

Email: nichon.k@pcd.go.th or pr@pcd.go.th

COMPANY PROFILE

To control, prevent, reduce and eliminate pollution and to conserve and rehabilitate the environmental conducive for human life.

The Board of Investment of Thailand (BOI)

555 Vibhavadi-Rangsit Road,

Chatuchak, Bangkok 10900, Thailand.

Tel.: +66-2-537-8111

Fax: +66-2-537-8177

Website: www.boi.go.th

Contact Person: Mr. Thanadet Chokanjanaruang,

and Mr. Patarakrit Vichitbhat

Email: patarakrit@boi.go.th



COMPANY PROFILE

The Board of Investment (BOI) spearheads the Thai government agency to attract foreign investment in to the Kingdom by actively promoting the country at home and abroad as a premier investment destination and providing the incentives to investor such as tax and non-tax incentive to stimulate such investment.

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Thailand Environment Institute



16/151 Muang-Thong Thani
Bond-street Road, Bang Phood, Pakkret,
Nonthaburi 11120, Thailand.

Tel.: +66-2-503-3333

Fax: +66-2-504-4826-8

Website: www.tei.or.th

Contact Person: Supanee Somprasong

Email: supanee@tei.or.th

COMPANY PROFILE

Established in 1993, Thailand Environment Institute (TEI) is a non-profit, non-governmental organization. Through researches, training and capacity-building activities, TEI has been working for the conservation of natural resources and the sustainable development of environment in Thailand and in the region. TEI advocates a participatory approach to shared environmental responsibility by working closely with government, private sector, local communities, civil society partners as well as regional and international organizations. Areas of concentration of TEI consist of 1) Business and Environment 2) Energy, Industry and Environment (EIP) 3) Urbanization and Environment (UEP) 4) Grassroots Action Program (GAP) and 5) Environmental Education and Human Resources Development Center (EEH). Among our list of environmental accomplishment and expertise are Green Labeling Project, Cleaner Technology, Thailand Network of Eco-Efficiency and Cleaner Production, Greening the Supply Chain and Material Exchange Center.

Thai Bioplastics Society (TBS)

Suntowers Building A, 32th Floor,
123 Vibhavadi-Rangsit Road,
Jatuchak, Bangkok 10900, Thailand.
Tel.: +66-2-273-8333
Fax: +66-2-2738282, +66-2-273-8484
Website: www.thaioplastics.com
Contact Person: Ms. Saranya Srirattana
Email: rprd@thantawan.com



COMPANY PROFILE

With the concern of global environmental aspect and the increasing demand of environmental-friendly products, Thai industries are enthusiastic to fulfill those needs. Together with the initiation of the National Innovation Agency (NIA) to build up the network of people in bioplastics, on 10th August 2005, five companies have formed the Thai Bioplastic Society or TBS. Eventhough, the founding companies are mainly in the downstream plastic production industries namely, Thantawan Industry Public Co.,Ltd., Thai Plastic Bags Industries Co.,Ltd., Unity Thai Products Co.,Ltd. and Quality Minerals Public Co.,Ltd., Wandee Panich Industries Co.,Ltd., Biodegradable Packaging for Environment Co.,Ltd. BASF (Thai) Limited, Siam Mould & Part Co.,Ltd., NR.Industrial Group, Liak Seng Trading Co.,Ltd. and Charoen Aksorn Holding Group, TBS is welcome other members from upstream industries as well as from research and academic institutes. The vision of the TBS is to lead Thailand to be the center of bioplastics in Southeast Asia Region.

The Petroleum and Petrochemical College, Chulalongkorn University.



Soi Chula 12, Phyathai Road,
Wangmai, Pathumwan,
Bangkok 10330, Thailand.

Tel.: +66-2-218-4134

Fax: 0-2218-4145, 0-2215-4459

Contact Person: Dr. Ratana Rujiravanit,

Dr. Suwabun Chirachanchai

Email: ratana.r@chula.ac.th,

csuwabun@chula.ac.th

Website: www.ppc.chula.ac.th

COMPANY PROFILE

The Petroleum and Petrochemical College is an international graduate school in academic partnership with the University of Michigan, University of Oklahoma, and Case Western Reserve University in the USA, and the Institut Fraçais du P'trole in France in the areas of Petroleum, Petrochemicals, and Polymers. Although the College has its own history for only 13 years, the College has succeeded not only in producing as many as 630 M.S. and 29 Ph.D. graduates (as of May 2006) but also having the highest number of international publications per faculty in the country. This year the college was ranked first in the science field for its research potential by the Higher Education Commission. As the technologies concerning the global environment are needed, the College encourages the collaboration with industries to carry out the objective-based researches on the themes of Biodiesel from tire wastes, Bioplastics for green packaging, Biopolymers for cosmetics, Biodegradable foam form starch, etc.

Institute of Biotechnology and Genetic Engineering, Chulalongkorn University

Institute Building 3, Chulalongkorn Soi 62,

Phayathai Road, Wangmai,

Pathumwan, Bangkok 10330, Thailand.

Tel.: +66-2-218-8052-6

Fax: +66-2-253-3543

Website: www.ibge.chula.ac.th/index20.htm

Contact Person: Associate Professor Dr. Amorn Petsom

Email: Amorn.P@chula.ac.th



COMPANY PROFILE

The Institute of Biotechnology and Genetic Engineering (IBGE) at Chulalongkorn University was established on September 29, 1983. IBGE is well equipped, containing apparatuses needed for activities ranging from basic analysis to pilot plant operation. The IBGE major scope of works includes integrating human resources by accommodating various selected faculty members to form a critical mass of valuable human resources in conducting specific biotechnological research and development and in teaching biotechnology within the framework of the organized structure of Chulalongkorn University. Research and development with the ultimate goal of applications in industrial operation through coordination, collaboration, and agreements with government agencies and the private sectors is another task of IBGE. In house technological development and selective acquisition from external suppliers, followed by pilot scale verification are conducted to demonstrate the technological potential application to industry. Besides, IBGE provides academic training and personnel development through collaborative teaching and training programs, such as multi-disciplinary Master's Degree Programs in Biotechnology with the Faculty of Science and programs to provide academic training and personnel development for government agencies and the private sectors, as part of development programs to implement meaningful technological transfer.

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The Thai Tapioca Development Institute (TTDI)



1168/26 Lumpini tower 15th floor,

Rama IV Road, Sathorn,

Bangkok 10120, Thailand.

Tel.: +66-2-679-9112

Fax: +66-2-679-9117

Website: www.thaitapioca.org

Contact person: Mr. sra chutharatkul

(Director, Planning Division)

Email: ttdi@tapiocathai.org

COMPANY PROFILE

The Thai Tapioca Development Institute (TTDI), under the Patronage of HRH Princess Maha Chakri Sirindhon, was established in 1992 as an independent non-profit organization with the support of the Ministry of Commerce and the Royal Thai Government. The core activities of TTDI concentrate its support and activities on five main core areas including 1) To reduce the production cost through the promotion of efficient production of roots by replacing native with high-yield varieties and by improving planting practice; 2) To enhance the application and utilization of tapioca through R&D in feed, food and non-food industries; 3) To develop and promote both domestic and export markets of Tapioca products; 4) To promote sustainable tapioca development through human resource development for cassava industries and 5) To generate public interests through dissemination of information on production, markets and the application and usefulness of Tapioca and its derivatives in daily life.

The National Science and Technology Development Agency (NSTDA)

111 Paholyothin Road,
Klong 1, Klong Luang,
Pathumthani 12120, Thailand.

Tel.: +66-2-564-7000

Fax: +66-2-564-7001-5

Website: www.nstda.or.th, www.cassava.org

Contact perso: Dr. Kuakoon Piyachomkwan

Email: Kuakoon@biotec.or.th, aapkrs@ku.ac.th



COMPANY PROFILE

NSTDA is a learning organization committing to strengthen Thai Science and Technology (S&T) capabilities in areas critical to national economic and social development through four national centers including The National Center for Genetic Engineering and Biotechnology (BIOTEC), The National Metal and Materials Technology Center (MTEC), The National Electronics and Computer Technology Center (NECTEC) and The National Nanotechnology Center (NANOTEC). Cassava and Starch Technology Research Unit, a satellite unit under the collaboration between NSTDA via BIOTEC and Kasetsart University, specializes in utilization of cassava, one of the most important economic crops of Thailand. The main unit missions include 1) conducting research and development in cassava and starch 2) supporting and implementing technology acquisition and transfer for the private sector by providing a range of technical, consulting and training services and 3) supporting human resource development and capacity for industry demand.

Vertical Chromatography Co.,Ltd.

87/54 Tesabansongkro Road,

Ladyao, Jatujak,

Bangkok 10900, Thailand.

Tel.: +66-2-953-8088

Fax: +66-2-591-4026

Website: www.vertichrom.com

Contact Person: Mr. Akkades Kaowichian

Email: sales@vertichrom.com



COMPANY PROFILE

A Thai manufacture specializes in chromatography. We serve chemists and biochemists in the field of drug discovery and testing, food analysis, environmental analysis, and chemist research. We offer a full line of chromatography products for HPLC, LC-MS, GC, GC-MS including HPLC columns, Capillary columns, Filters, SPE, and Chromatography accessories. Our products are export to North America, Asia, and Europe. We supply our products to end users, distributors, and OEM partners. We are able to provide products of the highest quality at very competitive prices. We are willing to customize our products to meet any specific requirement.

Green World Publication Co.,Ltd.

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**COMPANY PROFILE**

The leading printing service provider and publisher of Thai business magazines, directories and textbooks, Green World Publication, cooperating with Marshall Carvendish (Singapore), published yearly buyer's guides for biotechnology industry, manufacturers, hospitality industry and tourism industry.

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Siam Paragon, Bangkok, Thailand

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Thai Airways International Public Company Limited



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COMPANY PROFILE

“Smooth as Silk”

Strengthening the Export Capacity of Thailand's Organic Agriculture National Innovation Agency (NIA)

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COMPANY PROFILE

The National Innovation Agency recently completed a 1 year Technical Assistance project on organic agriculture, with the support of the Geneva-based UN International Trade Centre (ITC) and the European Union.

A 7-point National Action Plan for organic agriculture was produced to help put more Thai organic produce on the plates of European consumers.

The initiative has provided assistance to the Kingdom in preparation to apply for EU's "Third Country List", the direct channel for EU to accept imports of organic products from Thailand. Inclusion on this list will provide a big boost to Thailand's organic sector.

The plan covers production, regulations, certification, research, training and marketing, and is the result of extensive talks with growers, regulators, companies and researchers. Acknowledging the success of many ongoing initiatives under Thailand's National Organic Agenda, the plan aims to dovetail with existing activities.

NIA therefore worked closely with concerned agencies, particularly the Ministry of Agriculture and Cooperatives, Ministry of Science and Technology, and Ministry of Commerce as well as individual growers and cooperatives.



NATIONAL INNOVATION AGENCY

The National Innovation Agency (NIA) was established by the Ministry of Science and Technology on October 1, 2003, in accordance with a Cabinet resolution of August 26, 2003. It is an autonomous organization supervised by the National Innovation Board. This special organization operates outside the normal framework of the civil service and state enterprises. NIA undertakes a broad-based and systematic approach in building up the “**National Innovation Ecosystem**”, by fostering strategic innovation, impacting the economic restructuring and social development as well as enhancing national competitiveness.



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