2004

GLOBAL PLASTICS ENVIRONMENTAL AWARDS

Thursday, February 19, 2004
Marriott Renaissance Center
Detroit, Michigan

Dr. Pallatheri Subramanian, Chairman
2004 GPEC COMMITTEE

General Chairman - Tim Kettering

Technical Chairman - Michelle Mikulec
Yara Y, Inc.

Sponsor Chairman - Deavron Farmer
The Matrixx Group

Promotions Chairman - Larry Koester
Burcham International

Student Poster Chairman - Dr. Klementina Khait

Awards Chairman - Dr. Pallatheri M. Subramanian
SPM Technologies

PED Division Chairman - Mike Montpetit
1. Must be 2003 Achievement.
2. Must be commercially adopted or accepted (e.g. as a standard).
3. Demonstrates leadership in the areas of plastics and environment.
4. Demonstrates creativity and originality.
5. Technological innovation.
6. A facilitating innovation, test, standards, regulations, etc.
7. Creates new markets that will benefit the environment.
8. Significant impact on the amount of plastics to the benefit of the environment.
10. Contributes to the solution of environmental issues and improve quality of life.

The Gordon Institute at Tufts University
4 Colby Street
Medford, MA 02155
978-346-9462

Accepting: Patricia Dillon

Stakeholder Dialogues for Recycling Engineering Thermoplastics from Used Electronic Equipment

This industry consortium led by the Gordon Institute at Tufts University developed the Electronic Engineering Thermoplastic Recycled Materials Guidelines. These Guidelines are the first publicly available specifications that characterize scrap plastics derived from used electronics in order to facilitate commodities trading. The ultimate goal of the Guidelines is to increase the volume of scrap plastics moving into value applications by creating a more consistent, reliable supply of recycled engineering thermoplastic resins. In 2003 the Institute for Scrap Recycling Industries (ISRI) published the Guidelines as part of its international standards for processing electronics scrap. The Stakeholder Dialogue project brings together the supply chain to develop collaborative solutions for overcoming challenges in recycling plastics from used electronics.
DuPont Engineering Polymers & Denso Corporation

DuPont Engineering Polymers
Barley Mill Plaza Bldg. 22
4417 Lancaster Pike
Wilmington, DE 19880-0022
302-892-8795

Accepting: William Y. Hsu, Engineering Polymers, Vice President Technology

Denso Corporation
Head Office: 1-1, Showa-cho, Kariya-shi
Aichi-ken, 448-8661
Japan

Accepting: Hiroyuki Wakabayasi, General Manager, Engineering R & D

For: Composite Recycle Technology, a proven closed-loop recycling process.

Denso Corporation and DuPont collaborated to demonstrate the viability of Composite Recycle Technology showcasing a radiator end tank made of nylon 66 recovered from post-consumer radiator end tanks.

Results of the DENSO/DuPont joint program with additional DuPont testing show Composite Recycle Technology can be one of the most effective technologies to take post-consumer parts made of glass or mineral-reinforced nylon 6 or 66 and convert them into first-use material in a way that is economically viable, environmentally responsible.

The Scotts Company
14111 Scottslawn Road
Marysville, Ohio 43041
937-578-5063

Accepting: Christiane Schmenk, Director, The Scotts Stewardship PAC

For: “The FastAct with Foam Roundup Trigger Sprayer”
For Lawn and Garden Applications

The system consists of a trigger sprayer system capable of targeting foamed pesticides to control weeds in lawns and gardens. The foam remains clearly visible for approximately a minute.

Mold design and extensive testing were key to the successful commercial launch. The FastAct with Foam Roundup sprayer eliminates the possibility of treating the same weed more than once and thus over-applying the product.

In field testing 80% of the participants saw novelty and differentiation. “I can see where I sprayed!” was all The Scotts Company needed to hear to move forward with the implementation of the new sprayer.
EREMA North America, Inc. / EREMA GesmbH Austria
23 Old Right Road, Unit 2
Ipswich, MA 01938
978-356-3771
Accepting: Mike Horrocks, VP Sales & Marketing
For: Development of “VacuRema” system for the recycling of RPET back into high grade, food use products such as a pellet for “Bottle to Bottle,” thermoformable sheet, fibres and strapping.

The “VacuRema” has been developed from a simple modification of EREMA’s well proven recycling system and offer customers a highly efficient and economical method of dealing with a high value “resource,” i.e. used PET containers.

Not only is it able to pelletize for “bottle to bottle,” it can be used as a direct production extruder taking washed PET flake direct into a finished product such as Thermoforming sheet, fibres, strapping.

It has US FDA “non object” for food grade applications and is able to maintain IV, or in certain cases, raise the IV.

Enabling Technologies in Processes & Procedures

Herman Miller, Inc.
P.O. Box 302
Zeeland, MI 49423-0302
616-654-7324
Accepting: Gabe Wing, Chemical Engineer/Design For the Environment Program
For: Herman Miller, Mirra Work Chair. Mirra is the first chair designed from the ground up to meet Herman Miller’s stringent Design for the Environment protocols.

Like all new Herman Miller designs, Mirra was scrutinized from top to bottom to assure that its material chemistry, recyclability, manufacturability, packaging, and ease of disassembly are environmentally friendly. In fact, Mirra is the first chair designed from the ground up to meet Herman Miller’s stringent Design for the Environment (DIE) protocols, which focus on creating economic value while simultaneously valuing the environment.

— Recycled content comprises 42% of the total chair weight
— 96% of Mirra’s materials can be recycled
— The initial designed over molded steel-and-polymer spine (which was impossible to disassemble) was replaced with a 100% nylon component
— All 500 chemicals and 850 materials used in the product line were tested for environmental risk
— The chair is assembled using 100% certified “Green-e” power generated from wind and other sources
Bio Based Materials Award

Ashland Specialty Chemical Company
5200 Blazer Parkway
Dublin, OH 43017
614-790-4962
Accepting: Shengjie (Jason) Li, Marketing Project Leader, Marketing & Business Development

For: The Composite Polymers group of Ashland Specialty Chemical has developed a new renewable source resin system ENVIREZ 5000 soybean and corn resin is the first commercial unsaturated polyester that uses a significant amount of soybean oil and ethanol in its production.

Ashland Specialty Chemical Company, a Division of Ashland, Inc., met John Deere’s environmental needs by developing a bio-based thermoset resin with enhanced processability over pure petroleum alternatives. ENVIREZ 5000 resin system is the first commercial unsaturated polyester that uses a significant amount of soybean oil and ethanol from corn in its production. The resin contains 25 percent (by weight) renewable source content and can be used in various open and closed molding processes. The resin, which adds strength, flexibility and endurance to the design of fiberglass reinforced composite polymer panels, is used to manufacture composite hoods and body panels in John Deere’s combines.

Environmental Stewardship (3 Awards)

Delta Plastics of the South
3104 S. Main Street
Stuttgart, AR 72160
870-673-7458
Accepting: Charlie Wood

For: Development of program to recycle polyethylene irrigation tubing “Turning Tubing into Treasure”

Delta Plastics is a leading manufacturer of a product known as poly irrigation tubing. About twenty-five (25) million pounds of tubing is sold in Arkansas, Louisiana, Mississippi and Missouri each year. This product is a commodity used for one growing season. There has been limited options available for discarding this tubing. Delta Plastics currently has over 113 collection sites in a four-state area. Specialized trucks cover these agricultural sectors keeping records of the amount of plastic recycled. Delta Plastics is proud to say we are the only manufacturer of this type in the United States to accomplish this environmental achievement.
Hancor, Inc.
401 Olive Street
Findlay, OH 45840
419/424-8275

Accepting: Bill Altermatt, Vice President of Marketing

For: Development of two new products – EcoFirst Pipe and Water Control Structures for environmental-sensitive construction projects. These are official licensed Ducks Unlimited products.

While over one million individuals support Ducks Unlimited’s mission to conserve, restore and manage wetlands and associated habitat for North American’s waterfowl, the corporate community is now playing a more active role. Hancor, Inc. has been a leader, stepping up in 2003 to provide financial, product and product engineering support to Ducks Unlimited – the world leader in wetlands conservation. Hancor enabled Duck’s Unlimited to continue its work conserving and restoring wetlands throughout North America. In fact, DU accomplished 110% of its acreage conservation goal during the period of Hancor’s support, completing 689 projects and conserving 250,000 acres.

Harbec Plastics, Inc.
369 Route 104
Ontario, NY 14519-8999
585-265-0010 x 202

Accepting: Bob Bechtold, President

For: Harbec onsite power system. Harbec applies Eco-economic principles to all phases of its operation.

Harbec Plastics, Inc. produces highly engineered custom plastic parts for customers in the medical, automotive, consumer goods, and other industries. Harbec is firmly committed to processes that are environmentally sustainable and highly efficient. Every aspect of Harbec’s ISO 9002, QS 9000, and ISO 14001 certified operation is designed to minimize waste through re-use and recycling, right down to their floor sweepings that, combined with re-ground plastic scrap and other waste products, are re-melted to produce long-lasting, decay-resistant plastic lumber at a nearby company.