



STRUCTURAL PLASTICS 2003



31st Annual Conference
and Design Recognition
of the SPI
Structural Plastics Division

New Product Design Recognition Entry Form



March 30 – April 1, 2003
The Nashville Marriott Hotel
Nashville, Tennessee



Sponsored by the Structural Plastics Division (www.plasticparts.org)
A Business Unit of The Society of the Plastics Industry, Inc.

Endorsed by:
Industrial Designers Society of America Materials
and Process Section (IDSA M&P)



New Product Design Recognition

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A Business Unit of The Society of the Plastics Industry Inc.**

PARTS RECOGNITION OVERVIEW

What is the New Product Design Recognition?

This is a non-commercial product showcase of the Structural Plastics Annual Conference. The event promotes new developments, applications and technologies used in the structural plastic industry. Recognizing molders, designers, toolmakers and end-users for design excellence the event exhibits innovation in a wide range of engineering, specialty and commodity materials. Product applications displayed are manufactured from standard injection molding, co-injection, low-pressure structural foam, reaction injection molding, blow molding, thermoforming, rotational molding and other progressive plastic processes from over a dozen different markets. First place awards are presented to those companies entering the most innovative commercial products in their market category.

The Structural Plastics Annual Conference also offers technical presentations representing the latest technologies and progressive techniques in the plastics industry. We encourage the presentation of a technical paper that complements your product entry to provide attendees with a first-hand look at your theories in practice. Contact Karen Miles at 800.525.3984 or kmiles@socplas.org for more information on presenting a paper.

Who is in Attendance?

The industry's leaders all striving to learn more about who and what is taking place within the structural plastics industry! Our conference is an industry mainstay with ~ OEMs ~ forward thinking Industrial Designers ~ Manufacturing Engineers ~ Tooling Engineers ~ Product Development Managers ~ Moldmakers ~ Equipment & Technology Providers ~ Material Suppliers ~ and Processors in attendance annually.

Spotlight on Parts ~ Sunday, March 30, 2003 ~ 5:00 - 7:00 p.m

Although the Product Design Recognition is non-commercial, Spotlight on Parts is a two-hour event that permits the display of company brochures and information that detail the uniqueness of your entry. Conference attendees, the press and the panel of judges use this session as their best opportunity to collect specifics about the entries. Participation in this session will yield dividends through increased exposure at the conference and provide a forum to get the word out about your product and your company.

Networking at its finest

Opportunities are available throughout the conference as attendees seek information related to part design, process selection, tooling, prototyping, material selection, finishing and assembly. With major industry press covering the show annually and OEMs in attendance, the Design Recognition is of great marketing value.

Last year's press list included representatives from: Plastics News, Omnexus, Plastics Technology, Injection Molding Magazine, Machine Design, Design News, Modern Plastics, Canadian Plastics, PVC Insight and Japan's Plastics Consultant Office. In addition, we will forward press releases for local recognition to any press of your choice!

Submission of Entries

Original Equipment Manufacturers (OEMs), designers, molders and moldmakers are eligible to submit entries in the New Product Design Recognition. An OEM is a company that produces complex products—such as a computer—utilizing plastic components purchased from other companies.

Commercial Product Entries

Entries in this classification must be a production product or part utilizing a plastic process technology and designed to provide support, bear a load, and/or enclose. The entry must be currently in commercial production or production molds must be ordered with commercial production to begin by December 31, 2003.

Entry Descriptions ~ Critical to Judging

The Guide to the New Product Design Recognition is distributed to conference attendees, press, and the judges. The entry description and judging criteria will be taken directly from the information provided on the enclosed entry form. Therefore, it is critical to provide a complete and accurate description. Inaccurate representations of the real value of your product may diminish the entry in the parts recognition. Entry Descriptions will be limited to only one page, the New Product Design Committee reserves the right to edit descriptions as necessary.

Entry Fees

- SPI Members and OEM's = \$100.00 per entry per category
- Non-Members = \$150.00 per entry per category

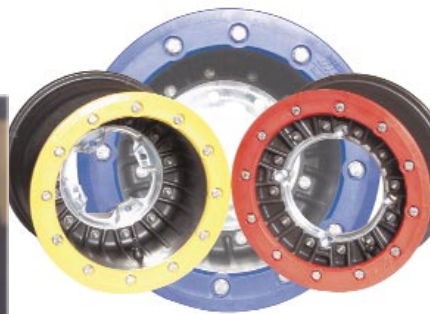
Entry Deadline

Please note: SPD has made a revision to their new product design entry form. There are now two deadlines to meet to be eligible for award judging, they are:

1. Product entry deadline: The entry form listing the company entering the part, contact information, product name/purpose and method of payment is to be completed and returned no later than February 28, 2003
2. Product description deadline: The entry form providing the product description is to be completed and returned no later than Sunday, March 30, 2003 at 2:00p.m. After this date products may be displayed but will not be recognized by the design recognition judges.

Shipping

Freeman Decorating has been retained to ensure smooth and trouble-free shipping for your product entries into Nashville and to assist with the parts recognition set-up and dismantle. Shipping information will be mailed once your entry is received. **Important!: The Nashville Marriott will not accept shipments sent directly to the hotel!**



Who Judges the Parts Recognition?

The Design Recognition Committee selects a panel of judges who are authoritative sources in the industry and are qualified to determine what represents change in the state-of-the-art. The judges will not be from participating companies. Judges will remain anonymous.

What Criteria are Used?

Entries are judged on innovation in unique and creative application of process, design, tooling, materials, finishing and markets. Then, the overall implementation of the entry, including aesthetic effect and manufacturing quality, is factored into the judging. As the state-of-the-art progresses, the quality of the part should not be sacrificed, so improvements in the part are judged in light of today's quality standards.

What Determines Innovation?

Innovation is the act of being creative, introducing something new, and representing a progression of the state-of-art. Innovation represents change, therefore, the following examples are not meant to be all-inclusive.

Process Innovation:

- ❖ Unusual combinations of multi-process parts
- ❖ Early applications of new process technology
- ❖ First use of a particular process to produce a particular part
- ❖ Use of new blowing agents
- ❖ Improvement in cycle times
- ❖ Parts produced outside traditional guidelines for a process

Design Innovation:

- ❖ Tightening of tolerances
- ❖ Use of new prototype techniques
- ❖ Use of innovative CAD techniques
- ❖ Use of cooling techniques for part application
- ❖ New aesthetic appearance
- ❖ New ergonomic approaches

Tooling Innovation:

- ❖ New use of tooling materials
- ❖ Use of different and unusual textures
- ❖ Use of difficult to achieve undercuts, bosses and stand-offs
- ❖ Use of unusually complex tooling
- ❖ Pioneering work with tolerances
- ❖ Use of new machining techniques

Materials Innovation:

- ❖ Use of new materials never before used in a process
- ❖ First use of material
- ❖ Unusual combinations of materials through process
- ❖ Unusual combinations of materials from multi-processes
- ❖ Use of adhesives in a different fashion
- ❖ Use of recycled materials

Finishing Innovation:

- ❖ Use of new coatings
- ❖ Elimination of paint
- ❖ Application of mist coats vs. two or three coats
- ❖ Different application of EMI-RFI coatings
- ❖ Molded-in finishes
- ❖ Co-injection use to achieve differentiated aesthetic look for functional application

Markets Innovation:

- ❖ Pioneering applications into new markets by any of the above criteria
- ❖ New application for plastic substitution from traditional materials (metal, glass, ceramic, wood or paper)



Commercial Product Awards

Conference Award: Presented to the most innovative entry in the parts recognition. The winner of this award enters the Structural Plastics Division's Hall of Fame.

People's Choice Award: Conference attendees vote for their choice of the most innovative entry. This award winner may or may not coincide with the Conference Award winner.

Judges' Award: Judges reserve the right to present a Judges' Award to a part that stands out among the entries, but does not win its category.

Single Part Award: Presented to the most innovative single part entered. If the part is a component of a total system, it will be eligible for the single part award only if entered in the single part category.

Environmental Award: Presented to an entry for the most innovative use of recycled material or design that provides for recycling through product disassembly, use of compatible materials or manufacturing applications. Such characteristics must be emphasized when completing Sections 1 and 2 of the entry form.

Individual Category Awards: First place awards to the most innovative commercial product entry in each category. Twelve category awards were presented at the 2002 New Product Design Recognition in Dearborn, Michigan.

6th Annual IDSA/Plastics News Design Award: The Industrial Designers Society of America (IDSA) and Plastics News sponsor this award presented to a commercial product entry in recognition of the important work performed by industry designers and to highlight the fruits of teamwork between designers, toolmakers and manufacturers. The judges for this award are selected by IDSA.

2002 AWARD WINNERS

Conference Award

The Cachet Chair
Steelcase, Inc.

IDSA/Plastics News Design Award

Bearhug Binding System
Helix Design, Inc.

People's Choice

The Cachet Chair
Steelcase, Inc.

Judge's Award

Challenger Tractor Components
GI Plastek

Agriculture Award

John Deere 8000 Series Tractor Hood Assembly Project
Bemis Manufacturing

Automotive Award

2002 Expedition Spoiler
Horizon Plastics Co. Ltd.

Building & Construction Award

High Capacity Envirochamber
F.G.L. Precision Works, Ltd.

Consumer Electronics Award

Impact Innovator Glass Door
Ingersoll-Rand/Husmann

Environmental Award

John Deere Harvester Combine Access Door
GI Plastek

Furniture Award

The Cachet Chair
Steelcase, Inc.

Industrial Award

Fuelmaker Natural Gas Refueling Station
Horizon Plastics Co. Ltd.

Lawn & Garden Award

John Deere Lightning Series Garden Tractor Project
Bemis Manufacturing

Materials Handling Award

Gemini Smooth Wall Container
ARCA Systems

Medical & Scientific Award

RIM Molded Computer Tomograph Enclosure
Thieme Corporation

Recreation & Leisure Award

Above Ground Pool Entry System
Horizon Plastics Co. Ltd.

Retail/Consumer Products Award

Petsafe Electronic Feeder
Radio Systems Corporation

Single Part Award

8000 Series John Deere Space Frame
Bemis Manufacturing

Transportation Award

Carbon Fiber Composite Racing Wheels
HiPer Technology

Product Entry Deadline – February 28, 2003

* Product Entry Description Deadline – March 30, 2003 by 2:00 p.m. Eastern\

(*Note: Panel of judges will not recognize parts displayed after this date)

NEW PRODUCT DESIGN RECOGNITION RULES

1. OEM Definition: An Original Equipment Manufacturer (OEM) is a company that produces complex products—such as a computer—utilizing plastic components purchased from other companies.
2. Original equipment manufacturers (OEMs), designers, molders, and moldmakers are eligible to submit entries.
3. Entries must utilize a plastic process technology and be designed to provide support, bear a load, and/or enclose.
4. A commercial product entry must be a current production part or in production by December 31, 2003.
5. The Parts Recognition Committee reserves the right to re-categorize a commercial product entry and merge categories that do not have at least three entries.
6. Use of trademarks, or other forms of commercial advertising, is prohibited. The Parts Recognition Committee reserves the right to remove any display or other information from an entry exhibit that violates the non-commercial spirit of the Parts Recognition. (Exception: The display of company brochures and information is permitted only during the "Spotlight on Parts" on Sunday, March 30, 2003 from 5:00 - 7:00 p.m.)
7. Entry fees do not include entry into the parts recognition area or conference. Only the parts recognition participants who register for the conference and pay all applicable registration fees are permitted to enter the parts recognition hall and conference area.
8. If registered for the conference, participants are permitted to stand at their entry exhibit and answer questions from the conference attendees when the parts recognition hall is open.
9. Previous award winners may be displayed, but will not be eligible for the parts recognition awards—the same fee schedule applies.
10. No electric power hookups are permitted.
11. Judges reserve the right to present a Judges' Award to an entry that stands out, but does not win its category.
12. If a single part is a component of a total system, it will be eligible for the single part award only if entered in the single part category. Judging for this category will be based only on the attributes of the single part and will not relate to its market category or system, if a component part.
13. The Parts Recognition Committee reserves the right to reject any entry received after 12:00 p.m. on Friday, March 28, 2003.
14. It is your responsibility to ensure delivery of the entry to the parts recognition site. The hotel will not accept direct shipments.
15. It is your responsibility to set-up and take down your entry as follows: Set-up is scheduled for Sunday, March 30, 2003 from 7:00 a.m. until 4:00 p.m. Take down is scheduled for Wednesday, April 2, 2003 from 7:00 a.m. until 12:00 Noon.
16. Premature removal of an entry will result in disqualification from the parts recognition. Entry cannot be removed until 4:30 p.m. on Tuesday, April 1, 2003.
17. It is your responsibility to remove the entry by 12:00 Noon on Wednesday, April 2, 2003, or it will be disposed of. The Structural Plastics Division of The Society of the Plastics Industry, Inc. and/or the contracted drayage company bear no responsibility for entries left unattended during take down.

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PRODUCT ENTRY APPLICATION FORM

Complete Application On-Line at www.plasticparts.org

DEADLINES: Product Entry Application – Page 1– Deadline: February 28, 2003
Product Description – Page 2 – Deadline: March 30, 2003 @ 2:00 p.m. Eastern

Company Entering Part _____
 Designer OEM* Molder Moldmaker
 Address _____
 City _____ State _____ ZIP _____
 Official Representative _____
 Telephone (____) _____
 FAX (____) _____

Name and company of individual to receive award if part wins

CONTACT PERSON FOR ENTRY
 Name _____
 Company _____
 Address _____

 City _____ State _____ ZIP _____
 Telephone (____) _____
 FAX (____) _____ E-Mail _____

* Signature of representative: _____
official representative
 date _____

This Section Must Be Completed – Only One Classification Allowed Per Entry

COMMERICAL PRODUCT: This product is currently in commerical production or production molds have been ordered.
 Commercial production will begin by December 31, 2003.

- | | | | | |
|--------------------------------------|---|--|---|---|
| <input type="checkbox"/> Check One | <input type="checkbox"/> Building & Construction | <input type="checkbox"/> Furniture | <input type="checkbox"/> Medical & Scientific | <input type="checkbox"/> Transportation |
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Computer & Business
Equipment | <input type="checkbox"/> Industrial & Military | <input type="checkbox"/> Recreation & Leisure | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Appliances | <input type="checkbox"/> Consumer Electronics | <input type="checkbox"/> Lawn & Garden | <input type="checkbox"/> Retail/Consumer Products | |
| <input type="checkbox"/> Automotive | <input type="checkbox"/> Materials Handling | <input type="checkbox"/> Single Part | | |

(PLEASE DO NOT USE TRADE NAMES)

PRODUCT NAME: _____

PRODUCT FUNCTION/PURPOSE: _____

MOLDER

Name _____
 Address _____
 City _____ State _____ ZIP _____
 Telephone (____) _____ FAX (____) _____

DESIGNER

Name _____
 Address _____
 City _____ State _____ ZIP _____
 Telephone (____) _____ FAX (____) _____

MOLDMAKER

Name _____
 Address _____
 City _____ State _____ ZIP _____
 Telephone (____) _____ FAX (____) _____

ORIGINAL EQUIPMENT MANUFACTURER (OEM)*

Name _____
 Address _____
 City _____ State _____ ZIP _____
 Telephone (____) _____ FAX (____) _____

* OEM Definition: Original Equipment Manufacturer (OEM): Company that produces complex products – such as a computer – utilizing plastics components purchased from other companies.

(Please enclose a photograph and/or any advertising literature available on this product.)

M E T H O D O F P A Y M E N T

Entry fees: **SPI Members/OEMs** **Non-Members**
 \$100us per entry \$150us per entry

Deadline: February 23, 2003

Check enclosed. Please charge my VISA MasterCard AMEX
 Account # _____ Exp _____
 Name on Card: _____
 Signature _____

Complete Page 1 (Product Entry Application)
and mail along with entry fee to:

Karen Miles
 The Society of the Plastics Industry, Inc.
 Structural Plastics Division
 1801 K Street, NW, Suite 600K – Washington, DC 20006-1301
 or, if paying by credit card, fax to: 202/296-7259

PRODUCT DESCRIPTION FORM, Page 2

Complete Product Description On-Line at www.plasticparts.org

This form must be returned no later than Sunday, March 30, 2002 @ 2:00 p.m. Eastern

COMPANY _____ PRODUCT NAME _____

1. PART ENTRY DESCRIPTION. Briefly describe the critical elements of your entry as well as why the entry is uniquely innovative without using trade names. Judges will use the description to understand why it is special, so it must have a strong promotional appeal for the entry. You must take the time to describe the uniqueness of your part. The committee cannot and will not promote the entry for you. **The description appearing here will be used to describe your entry in the New Product Design Competition Guide.**

2. WHY IS THIS PART INNOVATIVE?

3. PROCESS:

Indicate Process Used

- Low Pressure Structural Foam
- Counter Pressure
- Thin Wall
- High Pressure Structural Foam (Expanding Mold)
- Gas Injection Molding
- Injection Molding
- Reaction Injection Molding (RIM)
- Structural Reaction Injection Molding (SRIM)
- Extrusion Blow Molding
- Thermoforming
- Coinjection Molding
- Other _____

Why was this process chosen?

4. DESIGN:

Design Techniques:

- Design was done using CAD
- Mold flow analysis
- Blueprints were required
- Finite element analysis
- Tooling done from tape
- Other _____

5. TOOLING

- Steel
 - Aluminum
 - Other _____
- Number of Cavities _____

Molded in Texture YES NO

Additional information:

6. MATERIAL (No trade names)

- PPO/PPE
- Polystyrene
- Polypropylene
- Polycarbonate
- Polyethylene
- ABS
- Polyurethane
- Glass Filler _____%
- Other _____

Why was material selected?

7. FINISHING

- Acrylic
- N/A (Unfinished)
- Polyurethane
- Self-Texturing
- Water Base
- Other _____
- Clear Coats

Number of Coats Required (Specify Sealers, Primers, Base)

EMI/RFI Technique

8. ENTRY HANDLING AND DISPLAY INFORMATION

Entry will be hand carried
 requires shipping

Display Requires: Table Top
 Free Standing

Size/Dimensions: _____

Weight: _____

Mail or fax this form to:

Karen Miles
The Society of the Plastics Industry, Inc.
Structural Plastics Division
1801 K Street, NW, Suite 600K
Washington, DC 20006-1301



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The Society of the Plastics Industry, Inc.
1801 K Street, NW, Suite 600K
Washington, DC 20006-1301

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