

PLASTICS INDIA

A journal for the growth and development of plastics trade & industry

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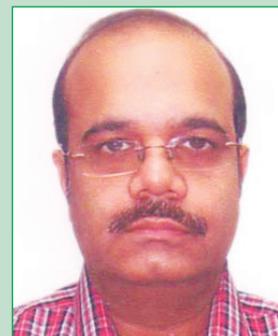
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Dear Friends,

Seasons Greetings. Hope everybody enjoyed the festive season and we are heading towards the end of the year with memories of joy and happiness, achievement and successes, whether personal or professional. It was the time to connect with the friends and families for sharing views, thoughts and perspectives.



I would like to congratulate the Team of new Office Bearers and Executive Committee Members headed by President Sri Ramesh Kumar Rateria and take this opportunity to thank **the new team for choosing me as the Editor for the monthly magazine "Plastics India"- An Official Organ of Indian Plastics Federation.**

Discussing the current scenario of calling back the blanket ban on Single Use Plastics, our responsibility has increased manifolds for finding new ways as how the industry can contribute on recycling and waste management apart educating and creating awareness in the society for using the plastics responsibly. Better waste management systems with emphasis of segregation, strengthening and up gradation of existing waste management systems, introducing eco friendly alternatives can yield long term impact. Waste segregated properly can become a resource rather than a challenge. The use of plastic waste in building long life sustainable roads with reduced bitumen costs should be promoted. Clear policy and rules for Extended Producers Responsibility (EPR) should be framed with focus on innovations in designs that can incorporate waste reduction.

The initiative to Save Environment & Ecology, waste collection drive for Clean & Green Kolkata was organized by our Federation in several Puja Pandals during the festive season. People were educated with knowledge of **DO NOT LITTER & USE PLASTICS RESPONSIBLY.**

The most awaited and the biggest Plastics Exhibition K Plas 2019, Dusseldorf, Germany finished off with more Indian Exhibitors than ever with their latest offerings. The visitors at the exhibition were looking to create additional capacities and to grow at a time of economic slowdown that has discouraged the new investors to enter the industry.

Launch function of Plastivision 2020 was organized by AIPMA, Mumbai, successfully held at The Taj Bengal, Kolkata.

We wish to upgrade this journal from time to time and look forward for your valuable suggestions and feedbacks at editor@ipfindia.org.

Manish Singhanian
Co-Editor

Presidential Address

Dear IPFIans,

By the time this magazine reaches you, all of you must have celebrated Deepawali and Chhath Puja with joy and excitement.

My sincere wishes to all of you for joyous Deepawali and Chhath Puja and a prosperous year ahead.

India is a country of diverse culture, faiths, practices and languages. It's a unique example of Unity in Diversity. We follow the philosophy of Universal Brotherhood with welfare and wellbeing of all.

The issues relating to ban on single used plastics haunted the minds of all concerned with plastic industry till 2nd of October. It was clarified by the Central Government that there was not going to be immediate ban on SUP but their use should be phased out by 2022.

The industry is gearing up to tackle the problem of plastic waste by proper waste management though waste collection, segregation, recycling and reuse of plastics.

Our State government is very serious about the problem of plastic waste management and is working on this issue. Your Association is in constantly engaged in dialogue and discussions with various ministries and civic authorities to find out a feasible solution in this direction. Very soon, the state government will come out with its policies for plastic waste management. But, our responsibility as an industry will be manifold. We must discourage and stop the production and processing of low gauge and low micron plastic products which are not easily recyclable. If we have to survive and progress, we must act as responsible citizens of the country and must not do anything which causes harm to the ecology and environment.

It is heartening to note that primary plastic producers and big plastic processors and users are becoming aware of EPR obligations and have started their working in this direction.

The collective effort put by all stakeholders will surely bring the desired change in consumption habits, life style and civic sense among us.

Your Association is committed to work in this direction by spreading knowledge and awareness about the proper use and disposal of plastics and by removing the negativity about it by convincing them that "Plastic, like other useful things or products such as fire, is a good servant but a bad master". All we need to do is to make plastic a loyal and faithful servant.

Let make a wish for the wellbeing of all by quoting this shloka :-

सर्वे भवन्तु सुखिनः सर्वे सन्तु निरामयाः,
सर्वे भद्राणि पश्यन्तु मा कश्चिद् दुःख भाग्भवेत् ।
ॐ शान्तिः शान्तिः शान्तिः



Ramesh Kr. Rateria
President



Dear Members,

The Federation held its Annual Diwali Get-Together on 7th November 2019 at Panache Banquet, Kolkata. Large number of members along with their spouse attended the function. A musical programme was followed by cocktail and dinner.

Your Federation has continued with its campaign of "GREEN KOLKATA – CLEAN KOLKATA". During the last Kali Puja two pet bottle crushing machines were installed at Puja pandals at Salt Lake for waste collection and re-cycling. The crushing machines were inaugurated by the ex-mayor of Bidhannagar Municipality Shri Sabyasachi Dutta. The Federation has taken up this issue with the Kolkata Municipal Corporation and offered its services as a facilitator in collection and re-use of plastic waste. IPF along with a member has made a proposal to the Kolkata Municipal Corporation for installing 1000 bins in different locations in Kolkata that includes collection, handling, processing and management of collected pet bottles. Very soon IPF will enter into a tripartite agreement with KMC and our member for implementing this project. We have also had a meeting with the Hon'ble Mayor in this connection. IPF is working with various organization for plastic waste collection and recycling.

For furthering the objectives of the Federation a number of sub-committees have been formed. A list of sub-committees along with their Chairman and Co-Chairman is given in the enclosed pages.

Many members have also been nominated as Special Invitees for attending our E.C. meetings for the term 2019-20.

On 6th November 2019 our President Shri Ramesh Kr. Rateria and Shri Ashok Jajodia, Past President, attended the meeting of the consultative committee organized by the West Bengal government at Nabanna Sabhaghar. Senior officials of WBIDC also participated in the meeting.

On 8th November 2019 Shri Alok Tibrewala, Past President, attended the meeting of the West Bengal Micro & Small Enterprises Facilitation Council, Govt. of West Bengal.

The Plastics Export Promotion Council jointly with CHEMEXIL and IPF organized an Awareness Programme on Sabka Vishwas (Legal Dispute Resolution) Scheme 2019 on 14th November 2019. Sabka Vishwas Scheme, 2019 is a scheme proposed in the Union Budget, 2019, and introduced to resolve all disputes relating to the erstwhile Service Tax and Central Excise Acts. The scheme has been notified by the CBIC to come into force on the 1st of September, 2019, and shall be operational until the 31st of December, 2019. Senior officers from O/o CGST, Kolkata North, GST Bhavan made a presentation on the key aspects of the scheme.

A workshop on Neuro Linguistic Programming was held on 16th November 2019 at IPF Conference Hall. The speaker was Mr. Santanu Das Sharma, Founder and CEO Neuromind Leadership Academy – The School of Human Excellence. The workshop helps members in developing their potential in handling their Stress and Strain problems and shows a way to come out from the harmful effects on human brain and body.

With Best Wishes



Sisir Jalan

Hony. Secretary



AWARENESS CAMPAIGN ON PLASTIC WASTES “GREEN KOLKATA - CLEAN KOLKATA”

During Durga Puja 2019, Indian Plastics Federation had initiated a public awareness campaign “GREEN KOLKATA – CLEAN KOLKATA” at selected puja pandals across Kolkata. The awareness campaign started from 5th October 2019 at Santosh Mitra Square Puja Pandal, then Suruchi Sangha, New Alipore, Bagbazar Puja Pandal, Kumortuli Puja Pandal and during Kali Puja at Salt Lake area Puja Pandals. During the campaign period plastic waste was removed from around the selected Puja Pandals. The campaign was the part of our social responsibility towards Environment & Ecology Protection.

SURUCHI SANGHA



SANTOSH MITRA SQUARE



SALE LAKE



DEEPAWALI GET TO-GETHER OF IPF MEMBERS

The Federation held its Annual Diwali Get-Together on 7th November 2019 at Panache Banquet, Kolkata. Large number of members along with their spouse attended the function. A musical programme was followed by cocktail and dinner. Senior members of the Federation were felicitated during the Diwali Meet.



OPEN HOUSE TALK SHOW ON NEURO LINGUISTIC PROGRAMMING

Indian Plastics Federation with The School Of Human Excellence, Neuromind Leadership Academy On Saturday 16th Nov 2019 Indian Plastics Federation organized an open house talk show on Neuro Linguistic Programming for personal excellence by International NLP+ Master Trainer & Coach, and NLP + Inventor Shantanu Das Sharma, CEO of The School Of Human Excellence, Neuromind Leadership Academy at the IPF Conference Hall, Royd Street, Kolkata. The event generated great interests in participants as very active participation from the attendees were visible. The talk show also generated acknowledgment and appreciation for Generative Change work with NLP + change work. Attendees could acknowledge how NLP + Interventions results in generative change, in which people learn to generate and create new talents and behaviors for themselves and others. It was very easy to understand that how a side effect of such generative change is that many of the problem behaviors that would otherwise have been targets for remedial changes also could simply disappear. Shantanu touched upon Remedial Works using Mental Space Psychology with Social Panorama modalities to cure unpleasant feelings, overcome relationship concerns, eliminate unwanted habits, and make changes in the interactions of couples, families & organizations by shifting control from unconscious mind to conscious mind – A shift from unconscious compulsive living to conscious responsive living style. The event opened up attendees to the concept of Neuro Linguistic Programming (NLP) for an effective & generative change work.



**EXECUTIVE COMMITTEE MEMBERS FOR THE TERM 2019-20 OF INDIAN PLASTICS FEDERATION
OFFICE BEARERS, ELECTED MEMBERS, CO-OPTED MEMBERS & PAST PRESIDENTS**

ELECTED MEMEBRS		
Name of Member		Company Name
Shri Ramesh Kumar Rateria	President	M/s Hind Polyfabs Pvt. Ltd.
Shri Pramod Kumar Agarwal	Vice President	M/s SMVD Polypack Ltd.
Shri Sisir Jalan	Hony. Secretary	M/s Servo Packaging Ltd.
Shri Amit Kr. Agarwal	Hony. Joint Secretary	M/s Manav Processors Pvt. Ltd.
Shri Lalit Agrawal	Hony. Treasurer	M/s Ostern Pvt. Ltd.
Shri Rajat Singhania		M/s Shree Plastics
Shri Sandip Jalan		M/s Servo Plastics Pvt. Ltd.
Shri Kushal Agarwal		M/s Kushal Polysacks Pvt. Ltd.
Shri Rajat Rateria		M/s Rateria Laminators Pvt. Ltd.
Shri Anil Ladha		M/s Harshit Polymers (India) Pvt. Ltd.
Shri Om Prakash Agarwalla		M/s Hanumandass Agarwalla
Shri Ajay Kumar Dabrial		M/s Indo Plastic Products
Shri Ajay Kumar Poddar		M/s Ishaan Plastics Pvt. Ltd.
Shri Anand Kr Surana		M/s Everbright Plastics Pvt. Ltd.
Shri Ashish Howala		M/s Techno Plast
Shri Hansraj Bothra		M/s Balaji Rotomoulders Pvt. Ltd.
Shri Kshitiz Kasera		M/s Extrusions
Shri Lakhan Dhona		M/s Ramlal Ramchandra
Shri Manoj Kr. Agarwal		M/s Shiva Polymers P. Ltd.
Shri Ranjit Chowdhary		M/s A. A. Plastoworld
Shri Saurabh Garodia		M/s Dhaulagiree Polyolefins Pvt.Ltd.
Shri Sanjeev Agarwal		M/s Crown Industries
Shri Vijay Kumar Gupta		M/s Ganapati Laminators & Packagers Pvt. Ltd.

COOPTED MEMBERS	
Shri Ajay Daga	M/s Daga Plastic Industries
Shri Ajay Shroff	M/s Prakrit Impex Pvt. Ltd.
Shri Anirudh Agarwal	M/s Ashay Marketing P. Ltd.
Shri Anil Agarwal	M/s Malsons Polymers Pvt. Ltd.
Shri Banwari Lal Tak	M/s Sanchar Poly tubes
Shri Gautam Ladha	M/s Garima Polymers
Shri Manish Singhania	M/s Vintech Polymers Pvt. Ltd.
Shri Mukesh Agarwal	M/s Rajami Barter Pvt. Ltd.
Shri Pradeep Biyani	M/s Gautam Plastic
Shri Prakash Kr. Birmecha	M/s Accurate Polymers Pvt. Ltd.
Shri Prakash Kr. Khemani	M/s Suraj Logistrix Pvt. Ltd.
Shri Rajiv Karnani	M/s Sea International
Shri Santosh Srivastava	M/s R. Polymers
Shri Sudarshan Kumar Tawri	M/s Shree Balaji Technoplast
Shri Sumit Agarwal	M/s Plastic Plaza & Co.

PAST PRESIDENTS	
Shri K. K. Lohia	M/s Lohia Jute Press Pvt Ltd
Shri J.M. Khemani	M/s National Moulding Co Ltd
Shri O. P. Mundhra	M/s Climex Pipe P. Ltd.
Shri S.K. Damani	M/s Plastic Concern
Shri Aloke Kanti Ghosh	M/s Conhyde India Pvt Ltd
Shri M.L. Lahoti	M/s Lahoti Plastic Moulders P Ltd
Shri M.P. Periwal	M/s Pioneer Plastic Works Ltd
Shri B.P. Khemka	M/s Asiatic Plastiques
Shri R.K. Kasera	M/s Extrusions
Shri N.K. Tibrewala	M/s Swastik Polymers P Ltd
Shri R.A. Lohia	M/s Neha Impex Pvt Ltd
Shri J.C. Agarwal	M/s Pratap Synthetics Ltd
Shri K.M. Tibrewala	M/s Tib Creations Pvt Ltd
Shri K.K. Seksaria	M/s Uma Plastics Ltd
Shri Sourabh Khemani	M/s National Moulding Co. Ltd
Shri Rajesh Mohta	M/s Mahabir Plastic Industries
Shri Pradip Nayyar	M/s Kumar Engineering Works
Shri Ashok Jajodia	M/s Montel Pen & Plastics
Shri K. K. Agarwal	M/s Ori-Plast Ltd.
Shri Alok Tibrewala	M/s Swastik Polymers Pvt. Ltd.

LIST OF SPECIAL INVITEES FOR THE TERM 2019-20

S.No.	Name	Company
1	Shri Abhishek Agarwal	M/s Plastochem India Pvt. Ltd.
2	Shri Abhyudaya Kedia	M/s Popular Plastics & Packaging Industries
3	Shri Amar Seth	M/s Rajda Chem Pvt. Ltd.
4	Shri Ankit Birmecha	M/s Accurate Turners Pvt. Ltd.
5	Shri Arun Kr. Ajitsaria	M/s Time Polyplast Pvt. Ltd.
6	Shri Bivas Das	M/s Reliance Industries Ltd.
7	Shri Brijesh Ranilawala	M/s P. B. Holotech (I) Pvt. Ltd.
8	Shri Chandan Sengupta	M/s Haldia Petrochemicals Ltd.
9	Shri Chandra Prakash Kandoi	M/s Creative Polypacks Pvt. Ltd.
10	Shri D. Khastagir	M/s Indian Oil Corporation Ltd.
11	Shri Deepak Rungta	M/s Rungta Mouldings Pvt. Ltd.
12	Shri Dilip Jha	M/s J. P. Extrusiontech Limited
13	Shri Harish Maheshwari	M/s Maheshwari Plastics
14	Shri Inder Daga	M/s Tirupati Polymers
15	Shri Jagat Banthia	M/s Z. A. Polymers Pvt. Ltd.
16	Shri Kamal Kumar Daga	M/s A. P. Plastics
17	Shri Ketan Shanghavi	M/s Ramo Export Import P. Ltd.
18	Shri Mahendra Kumar Sanwalka	M/s Accurate Turners Pvt. Ltd.
19	Shri Manik Manna	M/s Manna Moulders
20	Shri Manish Jalan	M/s Win Pens Pvt. Ltd.
21	Shri Manish Tibrewala	M/s Tib Creations Pvt. Ltd.
22	Shri Manoj Kr. Agarwal	M/s Mittal Technopack Pvt. Ltd.
23	Shri Manoj Kumar Jalan	M/s Sandipan Poly Pack
24	Shri Mihir Kr. Mukherjee	M/s Millenium Plastipack Pvt. Ltd.
25	Shri Mohan Lal Agrawal	M/s Hindustan Plastics
26	Shri Mohit Sanwalka	M/s Accurate Turners Pvt. Ltd.
27	Shri Mukesh Agarwal	M/s Jai Bharat Bucket Industries
28	Shri N. K. Bhattacharjee	M/s Techon India Pvt. Ltd.
29	Shri N. K. Surana	M/s KKalpana Industries (India) Limited
30	Shri Naresh Kumar Agarwal	M/s Kushal Polysacks Pvt. Ltd.
31	Shri Navin Kumar Lath	M/s Shree Narayani Pipe Mfg. Co.
32	Shri Nilotpal Biswas	M/s Plastics Export Promotion Council, Kolkata
33	Shri P. M. Anand	M/s Reliance Industries Ltd.
34	Shri Partha Mukherjee	M/s HPCL Mittal Energy Ltd.
35	Shri Pradeep Kr Kedia	M/s Kusum Management Services Pvt. Ltd.
36	Shri Prakash Kandoi	M/s Royal Touch Fablon Pvt. Ltd.
37	Shri Puneet Tantia	M/s Chemico International Pvt. Ltd.
38	Shri Rajesh Maheshwari	M/s Maheshwari Plastics
39	Shri Rajiv Goenka	M/s Purv Flexipack Pvt. Ltd.
40	Shri Rohit Anchalia	M/s Prime Prints (P) Ltd.
41	Shri Sahab Sultan	M/s Plasha Polymers
42	Shri Sajjan Bansal	M/s Asansol Polyfabs Pvt.Ltd.

LIST OF SPECIAL INVITEES FOR THE TERM 2019-20 (CONTD.)

S.No.	Name	Company
43	Shri Sandeep Mondal	M/s Gail India Ltd. (033-46039990/1/2/3)
44	Shri Sanjay Chowdhary	M/s Transworld Business Corporation
45	Shri Shnakar Kumar Tekriwal	M/s Puja Poly Plastics Pvt. Ltd.
46	Shri Shyamal Guha Thakurta	M/s Gail India Ltd. (033-46039990/1/2/3)
47	Shri Siddharth Seksaria	M/s Uma Plastics Ltd.
48	Shri Subrato Samanta	M/s Indian Oil Corporation Ltd.
49	Shri Sujit Biswas	M/s Haldia Petrochemicals Ltd.
50	Shri Sunil Agarwal	M/s Pratap Synthetics Limited
51	Shri Swastik Agarwal	M/s Siddharth Plastics Industries
52	Shri Syed Rizwan Ahmed	M/s Spectrum Polyprint
53	Shri Udayan Mukherjee	M/s CIPET, Haldia
54	Shri Uttam Singhania	M/s Triveni Chemicals
55	Shri Vijay Agarwal	M/s Calco Polychem Pvt. Ltd.
56	Shri Abhishek Goyal	M/s SL Polypack Pvt. Ltd.

LIST OF SUB-COMMITTEES FOR THE TERM 2019-20

1	Administrative & Finance	Shri B. L. Tak	Chairman
		Shri Sisir Jalan	Co-Chairman
2	Good Business Practices	Shri Ramesh Kumar Rateria	Chairman
		Shri Prakash Kumar Birmecha	Co-Chairman
3	Constitution	Shri Ramesh Kumar Rateria	Chairman
		Shri Mohan Lal Agrawal	Co-Chairman
4	Cultural Programme	Shri Om Prakash Agarwalla	Chairman
		Shri Santosh Srivastava	Co-Chairman
5	Diamond Jubilee Celebration	Shri Manoj Kumar Agarwal	Chairman
		Shri Ajay Shroff	Co-Chairman
6	Environment	Shri Ashok Jajodia	Chairman
		Shri Lalit Agrawal	Co-Chairman
7	Industrial Coordination	Shri Sandip Jalan	Chairman
		Shri Pramod Kumar Agarwal	Co-Chairman
8	Magazine & Editorial Board	Shri Manish Singhania	Chairman
		Shri Lalit Agrawal	Co-Chairman
9	Membership Drive	Shri Ramesh Kumar Rateria	Chairman
		Shri Amit Agarwal	Co-Chairman
10	Taxation - Direct Taxes	Shri Ramawatar Poddar	Chairman
		Shri Sumit Agarwal	Co-Chairman
11	Taxation - Indirect Taxes	Shri Pradeep Kumar Kedia	Chairman
		Shri Puneet Tantia	Co-Chairman
12	IPF Knowledge Centre	Shri J. C. Agarwal	Chairman
		Shri Saurabh Garodia	Co-Chairman

LIST OF SUB-COMMITTEES FOR THE TERM 2019-20 (CONTD.)

13	Pipe	Shri Shyamlal Agarwal	Chairman
		Shri Navin Lath	Co-Chairman
14	Raw Material	Shri Anil Ladha	Chairman
		Shri Rajat Rateria	Co-Chairman
15	Sports	Shri Mukesh Agarwal	Chairman
		Shri Anil Agarwal	Co-Chairman
16	Seminar	Shri Sudarshan Tawri	Chairman
		Shri Sourabh Garodia	Co-Chairman
17	Youth Wing	Shri Swastik Agarwal	Chairman
		Shri Rajiv Karnani	Co-Chairman
18	Information Technology	Shri Amit Agarwal	Chairman
		Shri Kshitiz Kasera	Co-Chairman
19	Woven Sacks	Shri Pramod Kumar Agarwal	Chairman
		Shri Lakhana Dhona	Co-Chairman
20	Indplas'21 Advisory Committee	Shri Ashok Jajodia	Chairman
21	Advisory Committee	Shri K.K. Seksaria	Chairman
		Shri Alok Tibrewala	Member
		Shri Ashok Jajodia	Member

TO ALL MEMBERS OF THE FEDERATION**CIRCULAR NO. 59 /2019****5th November 2019**

The Federation has received the following applications for membership of the Federation

1. a) Name & address of the Applicant Firm : **M/S A. B. POLYPACKS PVT. LTD.**
4, Netaji Subhas Road, 1st Floor
Kolkata 700 001
- b) Class of membership : Life Manufacturer Member.
- c) Proposed by : M/s Ramo Export Import Pvt. Ltd.
- d) Seconded by : M/s Rajami Barter Pvt. Ltd.
- e) Name of representatives : 1) Mr. Chinmay Kumar - Director
2) Mr. Mrinmay Kumar - Director
- f) Items of manufacture : Manufacturer of Plastic Products
2. a) Name & address of the Applicant Firm : **M/S AJONTA PLAST**
8, Pagladanga Road
Kolkata 700 039
- b) Class of membership : Life Manufacturer Member.
- c) Proposed by : M/s Malsons Polymers Limited
- d) Seconded by : M/s Rajami Barter Pvt. Ltd.
- e) Name of representative : 1) Mr. Rajeev Kapoor - Proprietor
- f) Items of manufacture : Manufacturer of Plastic Electrical Boxes

3. a) Name & address of the Applicant Firm : **M/S AURUM CHEMICALS PVT. LTD.**
11, B. B. Ganguly Street, 2nd Floor
Kolkata - 700012
- b) Class of membership : Life Manufacturer Member.
- c) Proposed by : M/s Accurate Turners Pvt. Ltd.
- d) Seconded by : M/s Kusum Management Services Pvt. Ltd.
- e) Name of representatives : 1) Mr.Nirmal Kumar Bhura - Director
2) Mr. Jai Bothra - Director
- f) Items of manufacture : Manufacturer of PVC Stabilisers
4. a) Name & address of the Applicant Firm : **M/S BAISHALI STEELS PVT. LTD.**
Vill. & P.O. Lakshmanpur, Domjur
Howrah - 711114
- b) Class of membership : Life Manufacturer Member.
- c) Proposed by : M/s Ratnajeet Polycorp Pvt. Ltd.
- d) Seconded by : M/s Lily India Pvt. Ltd.
- e) Name of representatives : 1) Mr. Sanjay Jain – Director
2) Ms. Sangita Jain – Director
- f) Items of manufacture : Manufacturer of tableware, Kitchenware, etc. made of plastics.
5. a) Name & address of the Applicant Firm : **M/S ESS DEE ENTERPRISE**
38/2, A. K. Mukherjee Road
Kolkata 700 090
- b) Class of membership : Annual Manufacturer Member.
- c) Proposed by : M/s Trident Plastic Machinery
- d) Seconded by : M/s Rateria Laminators Pvt. Ltd.
- e) Name of representative : 1) Mr.Soumit Das – Proprietor
- f) Items of manufacture : Manufacturer of Plastic Goods (Plastic Bags and Containers)
6. a) Name & address of the Applicant Firm : **M/S GLEN INDUSTRIES PVT. LTD.**
50A, Block 'C', New Alipore, Rajveena, 2nd Floor
Kolkata 700 053
- b) Class of membership : Life Manufacturer Member.
- c) Proposed by : M/s Ostern Pvt. Ltd.
- d) Seconded by : M/s SMVD Polypack Ltd.
- e) Name of representatives : 1) Mr. Lalit Agrawal – Director
2) Mr. Nikhil Agrawal - Director
- f) Items of manufacture : Manufacturing and Exporting of PP food containers.
7. a) Name & address of the Applicant Firm : **M/S HANUMANDASS AGARWALLA**
P-12, New Howrah Bridge Approach Road
Ground Floor
Kolkata 700 001
- b) Class of membership : Conversion from Annual Dealer Member to
Life Dealer Member.
- c) Proposed by : M/s Sanchar Poly tubes
- d) Seconded by : M/s Ever Bright Plastic (P) Ltd.
- e) Name of representatives : 1) Mr.Om Prakash Agarwalla – Partner
2) Mr. Vijay Kumar Agarwalla – Partner
3) Mr. Vivek Agarwalla – Partner
- f) Items dealt in : Deals in all kinds of polymers and synthetic rubbers.

8. a) Name & address of the Applicant Firm : **M/S JAI HIND PLASTIC**
P-41, Princep Street, Room No. 523
Kolkata 700 072
- b) Class of membership : Life Manufacturer Member.
- c) Proposed by : M/s Sanhit Polymer Pvt. Ltd.
- d) Seconded by : M/s K. L. Mechanical Works Pvt. Ltd.
- e) Name of representatives : 1) Mr. Rajiv Kothari – Partner
2) Mr. Juhi Dealer Pvt. Ltd. – Partner
- f) Items of manufacture : Manufacturing through Thermoforming Process.
9. a) Name & address of the Applicant Firm : **M/S MA PLASTIC ENTERPRISE**
229, Jessore Road, Ward No.3 , Joygachi, Habra
North 24 Parganas – 743263
- b) Class of membership : Life Manufacturer Member.
- c) Proposed by : M/s Garima Polymers
- d) Seconded by : M/s Harshit Polymers (India) Pvt. Ltd.
- e) Name of representative : 1) Mr.Sukharanjan Bhakta – Proprietor
- f) Items of manufacture : Manufacturer of Plastic goods and toys – All Category
10. a) Name & address of the Applicant Firm : **M/S NAWKIRAN POLYPLAST PVT. LTD.**
Poddar Court, 18, Rabindra Sarani, Gate No. 3, 5th Floor
Kolkata - 700001
- b) Class of membership : Life Manufacturer Member.
- c) Proposed by : M/s Harshit Polymers (India) Pvt. Ltd.
- d) Seconded by : M/s Garima Polymers
- e) Name of representative : 1) Mr.Nawneet Sodhani – Director
2) Mrs. Kiran Sodhani – Director
- f) Items of manufactures : Manufacturer of PET PREFORMS
11. a) Name & address of the Applicant Firm : **M/S NKB EXTRUSIONS PVT. LTD.**
184, Harish Mukherjee Road, 3rd Floor
Kolkata – 700026
- b) Class of membership : Life Manufacturer Member.
- c) Proposed by : M/s Ratnajeet Polycorp Pvt. Ltd.
- d) Seconded by : M/s Lily India Pvt. Ltd.
- e) Name of representatives : 1) Mr Nirmal Kumar Bagaria – Director
2) Mr. Nalin Bagaria – Director
3) Mr. Nikunj Bagaria – Director
- f) Items of manufacture : Manufacturer of Plastic articles
12. a) Name & address of the Applicant Firm : **M/S NAYAN PLASTIC WORKS**
215, Ashutosh Colony, Hijalpuria
Habra, Ward No. 19
North 24 Parganas – 743271
- b) Class of membership : Life Manufacturer Member.
- c) Proposed by : M/s Garima Polymers
- d) Seconded by : M/s Harshit Polymers (India) Pvt. Ltd.
- e) Name of representative : 1) Mr.Probir Karmakar – Proprietor
- f) Items of manufacture : Manufacturer of Plastic goods and toys – All Category

13. a) Name & address of the Applicant Firm : **M/S POLYMER INDUSTRIES**
137, Netaji Subhas Road
2nd Floor, Suit No. 17
Kolkata 700 001
- b) Class of membership : Life Manufacturer Member.
- c) Proposed by : M/s Garima Polymers
- d) Seconded by : M/s Harshit Polymers (India) Pvt. Ltd.
- e) Name of representatives : 1) Mr.Vikram Sharma – Partner
2) Mr.Prahlad Rai Sharma – Partner
- f) Items of manufacture : Manufacturer of PVC Suction Pipe, polythene delivery pipe & PVC pipes.
14. a) Name & address of the Applicant Firm : **M/S PUREPET POLYMERS LLP**
36A, Pratapaditya Road, 1st Floor
Kolkata 700 026
- b) Class of membership : Annual Manufacturer Member.
- c) Proposed by : M/s Dhaulagiree Polyolefins Pvt. Ltd.
- d) Seconded by : M/s Manav Processors Pvt. Ltd.
- e) Name of representatives : 1) Mr.Ayush Poddar – Partner
2) Ms.Divya Poddar – Partner
- f) Items of manufacture : Manufacturer of Pet Preforms & Bottles.
15. a) Name & address of the Applicant Firm : **M/S S. K. BUSINESS**
Sankrail Industrial Park, Vill: Bhagbatipur
P.O.Chaturbhujkati, P.S.Sankrail,
Dhulagarh, Howrah - 711313
- b) Class of membership : Life Manufacturer Member.
- c) Proposed by : M/s Kusum Management Services Pvt. Ltd.
- d) Seconded by : M/s Accurate Turners Pvt. Ltd. .
- e) Name of representative : 1) Mr.Sitaram Tibrewala - Proprietor
- f) Items of manufacture : Manufacturer of PP Leno Bags
16. a) Name & address of the Applicant Firm : **M/S SARADA INDUSTRIES**
Talbanda Saharpur, P.O.Jugberia
P.S. New Barrackpore
Kolkata 700 110
- b) Class of membership : Annual Manufacturer Member.
- c) Proposed by : M/s Sanhit Polymer Pvt. Ltd.
- d) Seconded by : M/s K. L. Mechanical Works Pvt. Ltd. .
- e) Name of representative : 1) Mr.Rabindra Lal Saha – Proprietor
- f) Items of manufacture : Manufacturer of Glass & Containers of plastic granules.
17. a) Name & address of the Applicant Firm : **M/S SBM PIPE INDUSTRIES PVT. LTD.**
Gem House, 2nd Mile, Sevoke Road
Near Marwari Uttor Bango Bhawan
Siliguri – 734001
- b) Class of membership : Life Manufacturer Member.
- c) Proposed by : M/s Ostern Pvt. Ltd.
- d) Seconded by : M/s SMVD Polypack Ltd.
- e) Name of representatives : 1) Mr.Suman Sarawgi – Director
2) Ms. Pinky Agarwal – Director
- f) Items of manufacture : Manufacturer of HDPE Pipes, PVC Pipes & Water Tank.

18. a) Name & address of the Applicant Firm : **M/S SHREE SAI ADARSH POLYMERS**
601, Block 'O', New Alipore
Kolkata 700 053
- b) Class of membership : Annual Manufacturer Member.
- c) Proposed by : M/s Popular Plastics & Packaging Industries
- d) Seconded by : M/s S. S. Corporation
- e) Name of representative : 1) Mr. Adarsh Kedia – Proprietor
- f) Items of manufacture : Manufacturer & Printing of BOPP, LD, HM, PP non-woven bags and packaging product.
19. a) Name & address of the Applicant Firm : **M/S SHUBHLABH PLASTO PVT. LTD.**
Parbirhata, near police Fari, P.O. Stripally
Burdwan - 713103
- b) Class of membership : Annual Manufacturer Member.
- c) Proposed by : M/s K. L. Mechanical Works Pvt. Ltd.
- d) Seconded by : M/s Sanhit Polymer Pvt. Ltd.
- e) Name of representative : 1) Mr. Anup Mondal – Director
2) Mr. Avishek Guptaa - Director
- f) Items of manufacture : Manufacturer of Plastic Disposable Items.
20. a) Name & address of the Applicant Firm : **M/S SILVERSON OVERSEAS PVT. LTD.**
113B, Manohar Das Street, Room No. 250, 1st Floor
Kolkata 700 007
- b) Class of membership : Life Dealer Member.
- c) Proposed by : M/s Accurate Turners Pvt. Ltd.
- d) Seconded by : M/s Kusum Management Services Pvt. Ltd.
- e) Name of representatives : 1) Mr Sunder Lal Bothra – Director
2) Mr. Jitendra Kumar Bothra – Director
3) Ms. Padmawati Bothra –Director
- f) Items dealt in : Importers of Fishing Net & Nylon Yarn
21. a) Name & address of the Applicant Firm : **M/S SWASTICK INDUSTRIES**
11, K. D. Jalan Road , Ghusuri
Howrah - 711107
- b) Class of membership : Life Manufacturer Member.
- c) Proposed by : M/s Kusum Management Services Pvt. Ltd.
- d) Seconded by : M/s Accurate Turners Pvt. Ltd.
- e) Name of representative : 1) Mr Ayush Tibrewala – Proprietor
- f) Items of manufacture : Manufacturer of Polythene delivery pipes and polythene layflat tubes.
22. a) Name & address of the Applicant Firm : **M/S SWETA POLYSACK PVT. LTD.**
49, Cotton Street, 3rd Floor
Garodia Market
Kolkata 700 007
- b) Class of membership : Annual Manufacturer Member.
- c) Proposed by : M/s Manav Processors Pvt. Ltd.
- d) Seconded by : M/s Vintech Polymers Pvt. Ltd.
- e) Name of representatives : 1) Mr. Saurabh Garodia – Director
2) Mr. Mishri Lal Garodia – Director
- f) Items of manufacture : Manufacturer of HDPE / PP Bags

23. a) Name & address of the Applicant Firm : **M/S UNIVERSAL TRADE LINKS**
109, N. S. Road, Gooyee House
3rd Floor, Room No. 71B
Kolkata 700 001
- b) Class of membership : Annual Dealer Member.
- c) Proposed by : M/s Sangeeta Industries
- d) Seconded by : M/s Manav Processors vt. Ltd.
- e) Name of representatives : 1) Mr.Tarun Jhunjhunwala – Partner
2) Mr. Alok Jhunjhunwala – Partner
- f) Items dealt in : Deals in BOPP Film.
24. a) Name & address of the Applicant Firm : **M/S WINNERS LABELS LLP**
272, Shailesh Nagar, Digberia
P.O. Abdalpur, Madhyamgram
Kolkata - 700155
- b) Class of membership : Life Manufacturer Member.
- c) Proposed by : M/s Manav Processors Pvt. Ltd.
- d) Seconded by : M/s. Vintech Polymers Pvt. Ltd.
- e) Name of representatives : 1) Mr.Amit Kumar Agarwal – Partner
2) Mr.Manish Singhaniania – Partner
3) Mr. Brijesh Ranilawala – Partner
- f) Items of manufacture : Manufacturer of Heat Transfer Labels, Foils & Films & Immould Labels.
25. a) Name & address of the Applicant Firm : **M/S OM SAI POLYMER**
Shankharipota Road, Kalagachia, Thakurpukur
Kolkata - 700063
- b) Class of membership : Annual Manufacturer Member.
- c) Proposed by : M/s K. L. Mechanical Works Pvt. Ltd.
- d) Seconded by : M/s Sanhit Polymer Pvt. Ltd.
- e) Name of representatives : 1) Mr.Anup Banerjee – Proprietor
- f) Items of manufacture : Manufacturer of plastic products
26. a) Name & address of the Applicant Firm : **M/S SPINO POLYMERS**
Maa Kali Industrial Estate
Dasnagar, Baltikuri
Howrah - 711103
- b) Class of membership : Annual Manufacturer Member.
- c) Proposed by : M/s K. L. Mechanical Works Pvt. Ltd.
- d) Seconded by : M/s Sanhit Polymer Pvt. Ltd.
- e) Name of representatives : 1) Ms. Swati Sultania – Partner
2) Mr. Roshan Darolia – Partner
3) Mr. Bal Krishan Darolia – Partner
- f) Items of manufacture : Manufacturer of plastic products

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NEW POLYMERS CAN CAPTURE WASTE HEAT FOR ELECTRONIC APPLICATIONS

Researchers have made a breakthrough in designing electrically and thermally conductive polymers for generating energy from waste heat. A team at the University of Massachusetts Amherst have made a breakthrough in research to generate energy from waste heat using a common material that isn't usually electrically conductive—polymer.

Chemist Dhandapani Venkataraman and electrical engineer Zlatan Aksamija have discovered a key variable to making polymer materials conductive—by observing a new characteristic during doping, a process that adds molecules or removes or adds electrons to the polymers to make them conductive.

“As we increase the doping, we can increase its conductivity but decrease the thermally-induced voltage,” Venkataraman explained to Design News about the discovery. “If we decrease the doping, we decrease the conductivity but increase the thermally-induced voltage. We need to balance both.” What researchers specifically discovered is that dopants can clump, or cluster—or not, he told us. This is key to achieving the right balance for conductivity. “We found that this clustering is an important new variable that we can tune to achieve the balance,” Venkataraman told Design News. Aksamija already had led previous research to create polymer-based materials to store solar energy in chemicals bonds and release them as heat on-demand, Venkataraman told us. So there was a precedent for the current work, he said. “The natural next step is for us to convert this heat to electricity,” Venkataraman told Design News. “Therefore, we started looking into polymer-based thermoelectric materials. We are also intrigued by some experimental results we got in our lab. So we joined hands to look into this problem of converting waste heat into energy.”

Doping typically involves a trade-off,

researchers said. It can either achieve more current and less thermally induced voltage, or more voltage and less current; however, it can't achieve both. Usually, if researchers improve one property, the other becomes worse, making it difficult to achieve the balance in materials, researchers said. To achieve their goal with this research, the team conducted experiments and efficiency analyses that ranged from zero doping to maximum doping to come up with the best electrically conductive balance for their polymers. Researchers published a paper on their work in the journal Nature Communications. Venkataraman said that the result will likely be a surprise for other scientists in the field, and a significant one, as polymers are useful materials to investigate for generating energy from waste heat for a couple of reasons.

Source : Plastemart.com

A GREEN WAY TO BURN PLASTIC WASTE

Burning of plastic waste has been a huge challenge as it produces harmful gases, which may cause many health hazards, including cancer.

Prakash Somasundaran, a Computer Science engineer from Thrissur, has come up with an ‘eco clean plastic waste burner’, which can burn plastic in an eco-friendly manner.

The apparatus uses low-cost natural fuel such as coconut shell/fibre and sawdust for burning plastic. No chemical has been used in it, says Mr. Somasundaran, an alumnus of Bharatiar University.

“The trick lies in pyrolysis of sawdust, which produces large amounts of heat, as high as 300 degrees Celsius. For treating the hazardous gases being produced when plastic burns, you have to treat them with water, which will dissolve the harmful gases,” he says.

Burning inorganic waste in the open with uncontrolled fire is very dangerous. It may release many toxic gases, resulting in air pollution.

Particularly, plastic waste may contain styrene and PVC, which may cause

dangerous emissions such as styrene gas and highly toxic chemicals.

The styrene gas can be absorbed by the skin and lungs. Toxic gases emitted by plastic waste burning can also cause cancer, asthma, and other diseases.

Many techniques have been used for addressing the harmful effects of plastic burning using furnace or burner. Using burner may reduce the emission of toxic gases.

Artificial fuel

“Generally, burner uses artificial fuel. But gas, kerosene, and oil may cost high and release more harmful smoke. Further, materials such as wood only burns for a shorter time and gets lit off easily. Heavy plastic metals cannot be melted completely in this short time and it requires more fuel for consistent and long-term burning. Moreover, in some conventional apparatus, waste and the fuel are burned in a single unit that may lead to uncontrolled fire and damage the facility,” Mr. Somasundaran says.

“My apparatus uses natural fuel and provides a low-cost way to burn plastic waste in households,” he says.

The apparatus costs around ₹50,000 and can burn around 5-10 kg of plastic waste a day. The fuel cost for a day will be only ₹100,” according to Mr. Somasundaran. He has an Indian patent for the invention.

Source : The Hindu

AMORPHOUS METALS COMBINED WITH POLYMERS FOR THE FIRST TIME

Engel and Heraeus have reduced cycle times by up to 70 percent compared with previous production solutions for the injection molding of amorphous metals. In doing so, the two system partners have opened the door to these alloys with truly special qualities entering large-scale production for a wide assortment of end uses. Engel is presenting the next big step in this development at K 2019. Two-component parts made of amorphous metal and silicone will be produced for the

first time – a process that is taking place in a fully automated manufacturing cell.

Due to their randomly arranged, non-crystalline structure, amorphous metals are both extremely hard and highly elastic. They exhibit good elastic recovery, are extremely corrosion-resistant and biocompatible according to ISO 10993-5. With this combination of properties, these alloys are superior to steel, titanium and many other materials.

On the basis of its proven hydraulic and tie-bar-less victory range, Engel has developed a new injection molding machine for processing amorphous metals from Heraeus' Amloy product range. The Engel victory AMM (amorphous metal molding) delivers fit-for-purpose parts with a premium quality surface finish within very short cycle times.

For the production of two-component housing demo parts at the K show, Engel is combining a victory 120 AMM with an insert 60V/45 vertical injection molding machine, which is equipped with a two-station rotary table. The manufacturing cell is fitted with both an Engel viper linear robot and an Engel easix articulated robot for the fully automated production process.

The first step involves injection-molding the basic structure for the housing on the victory AMM from a zirconium-based Amloy alloy. To do this, the viper robot takes an Amloy pre-material from the separator and transfers it to the injection unit. After less than 70 seconds, the metal component takes full shape. The viper removes the part and deposits it onto a tray. The easix articulated robot takes over from there, placing the Amloy component on the lower mold half on the insert machine's rotary table, where a liquid silicone rubber (LSR) seal is molded over the part. The elastomer component also consistently fills out the seal structure on the bottom of the part through narrow openings on the surface of the housing.

Both of the molds are made by long-term Engel partners. The mold for the AMM process was provided by Flex, while Starlim Sterner supplied the LSR injection mold.

The demo parts combine the needs of

portable electronic devices with the innovative properties of the Amloy materials.

In addition, two-component injection molding opens up new opportunities for designing housing frames that are almost indestructible while enjoying better protection from dust, water, and radio waves. "Fully automated hybrid production is unlocking huge potential, especially for the consumer electronics industry," Gerhard Dimmler, Senior Vice President of product research and development at Engel Austria, states. "Our development work has confirmed that, in multi-component injection molding, it is possible to create stable combinations not only of silicone but also of other elastomers and thermoplastics with Amloy materials." Zirconium-based and copper-based alloys for large-scale applications are currently available in the Amloy product line, with alloys based on titanium, iron, and platinum also in the works. With this variety of materials, Heraeus and Engel cover a huge range of new applications. The list includes portable electronic devices, durable instruments for minimally invasive surgery, stable suspension and wear-resistant drivetrain components for the aerospace industry, premium decor elements for cars, and abrasion-resistant watch components.

Source : Stephen Moore

ADVENTURES IN PADDLE-BOARDING: 'HUDSON PROJECT' DOCUMENTARY DRAWS ATTENTION TO PLASTICS POLLUTION

An environmental activist, adventurer, author and founder of the non-profit organization Plastic Patrol, Carr is dedicated to exploring the globe on paddle-boarding adventures and using her journeys to capture important data to educate the public on environmental issues.

The Hudson Project "brings together an environmentally conscious firm that

creates biodegradable and recyclable plastic with an activist committed to cleaning up discarded plastic," according to the media advisory. "Both entities share the common goal of creating a world free from plastic waste."

I'm actually on board with Carr's mission, which is more in line with the plastics industry's mission: To eradicate single-use plastic from the natural environment, not to eradicate single-use plastic! Too many anti-plastic people just want to eliminate plastic from the face of the earth, throwing out the baby with the bath water. Carr wants to eliminate single-use plastic from the environment, which is an admirable goal.

Having the support of a global plastics manufacturer lends credibility to her idea and demystifies "both sides of the plastic pollution problem and throws light on what we do after the plastic is collected, and explores ways to solve the single-use plastic crisis," said the media advisory.

Chaturvedi has been with the organization for almost a decade, working from the ground up in every unit of UFlex. He learned the trade both domestically and internationally as a trainee and apprentice in India, Mexico, Poland, Egypt, Dubai and in the United States. Chaturvedi spearheaded the expansion of UFlex in the United States, and currently heads the NAFTA region for the films business. He is responsible for global product stability, R&D and new product development, HR protocols, and serves as Chief Cultural Officer for all standards of operation at UFlex and its subsidiaries globally. He graduated from the prestigious Babson College with a triple major in finance, global strategic management and economics.

UFlex is one of the largest polymer companies in the world and India's largest multinational flexible packaging materials and solutions provider. Founded in 1985, UFlex has state-of-the-art packaging facilities at multiple locations in India

with installed capacity of around 1,35,000 tonnes per annum; it operates packaging film manufacturing facilities in India, United Arab Emirates, Mexico, Egypt, Poland and the United States. The company recently won Dow's 2018 awards for packaging innovation and sustainability.

Plastic Patrol, founded by Carr in 2016, is a global movement that started as a mission to fight plastic pollution on inland waterways and to clean up the planet. Its mission is to make sure rubbish stays out of nature. Plastic Patrol has grown rapidly and organically throughout the world, and operates across the United Kingdom, Europe and United States through a team of recognized partners delivering clean ups and a global army of volunteers.

In the last two years, Plastic Patrol has spearheaded more than 130 clean ups, reaching thousands of people and removing more than 280 tonnes of trash from the natural environment. The movement runs free clean ups with a difference—litter picking while trying a new activity and collecting valuable data on rubbish. Litter picking must be combined with data collection to create lasting, evidence-based change, said the organization.

Carr finds more than just plastic trash, of course, but plastic has the bull's-eye because it is lightweight and floats, whereas heavier materials sink to the bottom of rivers, streams, lakes and oceans, where they are not seen and, therefore, not talked about.

The best part about Carr's efforts, however, and the assistance UFlex provides is educating people on what to do with plastic waste; perhaps that will make them think about all the other forms of waste they throw into the environment. We in the plastics industry need all the help we can get from people who see that the real need isn't to eradicate plastics, but to eliminate plastic waste from the environment. That's the highest and best good for the industry and the Earth.

Source : Clare Goldsberry

BIO-BASED POLYETHYLENE TO GROW AT CAGR OF 20.8% OVER THE NEXT FIVE YEARS TO US\$1540 MLN –

Market for Bio-based Polyethylene is expected to grow at a CAGR of roughly 20.8% over the next 5 years, will reach US\$1540 million in 2023, from US\$490 million in 2017, according to a new GIR (Global Info Research) study. Bio-based Polyethylene is (also known as renewable polyethylene) is polyethylene made out of ethanol, a renewable raw material, which becomes ethylene after a dehydration process. Bio-based Polyethylene is produced from ethanol sugarcane, while the traditional polyethylene uses fossil sourced raw materials such as oil or natural gas. Bio-based Polyethylene captures and fixes CO2 from the atmosphere during its production, helping to reduce greenhouse gases emission. Bio-based Polyethylene can be made from various feedstock including sugar cane, sugar beet, and wheat grain. It is first made using sugar cane from Brazil.

Latin America regions is the largest supplier of Bio-based Polyethylene, with a production market share nearly 93.59% and sales market share nearly 17.32% in 2015. That is to say, there will be exports in North America, while North America also is the largest consumption region., The second place is Europe regions, following Japan, with the production market share of 6.41% and the sales market share over 32.85%. North America region is another important consumption market of Bio-based Polyethylene, enjoying 31.57% sales market share. Bio-based Polyethylene is used by Agriculture & Industry, Food & Beverages, Cosmetics & Household Care and Others. Report data showed that 14.17% of the Bio-based Polyethylene market demand in Agriculture & Industry, about 45.77% in Food & Beverages and 30.31% in Cosmetics & Household Care in 2015.

Source : Plastemart.com

ADDITIVES ENABLE RECYCLABILITY OF PLASTICS WASTE WHILE SUSTAINING VALUABLE PROPERTIES

Through a “Symphony of Collaboration” with partners along the full plastics value chain, Clariant is taking proactive steps in addressing the problem of plastic pollution with new solutions for diverse industry sectors, from packaging – the main use of plastics – to textile floorings and consumer electronics. Complementing its “fit for reuse” solutions where Clariant demonstrated how its additives are recyclable, it now showcases the next level, turning the spotlight on how its additives can make it easier to recycle post-production and post-consumer plastic waste while keeping the material's performance properties.

Newly-developed Add Works PKG 906 Circle for polyolefin films is a prime example of enabling plastic packaging producers to achieve some of their critical sustainability and business goals: waste reduction, less consumption of virgin resin, lower costs and increased production efficiency. The addition of this polymer stabilizer allows producers to significantly increase the reuse of waste materials in their polypropylene (PP) and polyethylene (PE) films, recycling their own reground scrap, without any loss of performance or processing efficiency. It is particularly well-suited for biaxially-oriented polypropylene (BOPP) manufacturing but also applicable to cast and blown film processes. With Clariant's additive, the reuse content of the post-production waste in the final film can be increased by up to 30%. At the same time, the additive is proven to protect the resin so that film quality remains excellent with significant reduction of gel formation and prevention of additional yellowing at same high line speeds. Add Works PKG 906 Circle contributes to a more sustainable and circular economy by making plastic waste reusable, without

compromising the packaging film quality and while also increasing the efficiency of the manufacturing process. This polymer stabilizer is the first Clariant product to carry the 'Circle' designator, introduced to highlight new products and solutions which have been specifically designed to deliver significant benefits to the re-use or recycle process.

Although the vast majority of carpets today are made of recyclable woven or tufted materials, most textile flooring still ends up in landfill or end-of-life incineration. This is largely due to the traditional use of a latex, water-based backing which cannot be removed from the pile fibres and creates a difficult-to-recycle material mix. Pioneering collaboration between Clariant and the Fraunhofer Institute – which developed the CreaSolv® Process – removes this obstacle and is a huge step forward for the industry in terms of achieving zero waste targets. Recyclable, EcoTain® certified Licocene Performance Polymers (LPP) deliver the benefits of a hot melt carpet backing. By replacing latex with Clariant's 100% solid content backing solution, water and the associated drying process can be fully avoided, adding up to extensive energy savings of up to 80%, as shown in production trials with carpet manufacturers. As a result, no contaminated waste water occurs. The propylene based LPP can be recovered with at least 90% of its virgin quality for re-use via the CreaSolv® Recycling technology, ensuring a cradle-to-cradle approach. Now, flooring textiles can be recovered and integrated back into production or down cycled into other applications. The whole process provides the missing link for the industry to design fully recyclable carpets from the outset for multi-material, and now also mono-material – a significant contribution to a circular economy for flooring starting from

post-consumer waste.

Clariant also offers more additives allowing recycle-use to be increased. On the processing side, high performing lubricants can be added to recycled polymers to improve the flow and mold release properties of recyclates. A recycler of post-consumer electronic waste for example is cooperating with Clariant, using its Licolub® H 12 to modify the recycle's rheology at low dosages to achieve melt flow improvement during processing and ultimately help transform components that have reached their end of life into high-quality new products. Clariant is also at an advanced stage in being able to market its compatibilizer range for use in recycling to help overcome the problem of utilizing post-consumer or post-industrial mixed plastic waste streams, so that plastics from plastic-rich waste streams can be efficiently reintroduced into the primary cycle.

Source : Plastemart.com

TWO WOMEN ENTREPRENEURS LAUNCH 'RADICAL' APPROACH TO PLASTICS THAT CAN 'CHANGE THE WORLD'

There's a lot to like about Radical Plastics, a startup based in Beverly, MA, focused on the development of economical biodegradable plastics. First, the founders of Radical Plastics are two women—Kristin Taylor, CEO, and Yelena Kann, CTO—polymer engineers who met while working at Metabolix.

"We've both been in the conventional plastics market and worked in efforts to replace persistent conventional plastics with alternatives," Taylor told *PlasticsToday* in a phone interview. "It was an uphill battle trying to bring PHA to market, given that it was five to 10 times more expensive."

The pair left Metabolix in 2013 to begin a project to develop a biodegradable

plastic that would actually biodegrade—something they could prove scientifically, not promote through hype. Their work began with polyolefins—PE and PP—with an eye toward developing packaging film.

Kann, PhD, a chemist and plastics engineer specializing in material stabilization, became aware of fine mineral matter, a waste byproduct of the mining industry. While Kann had seen many alternative solutions to biodegradable plastics come down the pike, this was her a-ha moment. She decided to test this fine mineral matter by putting samples of PE film containing a small amount of the matter with a particle size of less than 1 micron out in her backyard. After a few weeks, it had begun to degrade, so Kann folded up the piece of film, put it in a container in her basement and forgot about it.

About six months later, she looked in the container and discovered that the PE film containing the catalyst, through a free-radical reaction, had further degraded into fine, waxy flakes. Testing the flakes, Kann found they had a lower molecular weight and were of a very different chemistry than the original PE. Kann got very excited about the prospects of this material as an agricultural film designed to be plowed into the soil at the end of harvest season.

Based on their experience with polymers, Taylor noted that the agricultural market is the optimal first step in the validation of this product. Radical Plastics is working to achieve third-party validation of their material for meeting the standard for agricultural mulch film's ambient degradation in soil, which states that the material must physically achieve 90% degradation over a two-year time frame.

The primary benefit of the new material is that most biodegradable or oxo-biodegradable materials degrade to a certain point in the environment but then the process stalls. This can lead to microplastics. The Radical Plastics catalyst drives the degradation reaction to completion. "Our material is a drop-in for

the polyolefin world and is different from any other technology out there,” Taylor said.

With just a 0.5 to 2% loading in the PE film, the fine mineral matter proved to be the perfect catalyst for breaking down the ag film farther and better than biodegradable film currently on the market. “We found the ag market makes sense as our material provides a functional advantage,” explained Taylor. “The degradable films currently offered are primarily starch based. They have inferior physical properties and are difficult to handle. We are offering a drop-in replacement for PE with the same outstanding physical properties that makes it easy for the farmer to use.”

Radical Plastics has received a notice of allowance for its first patent, which was submitted in March 2018, but Taylor noted there are more to come as the company’s efforts expand.

Over this past summer, the women quit their full-time jobs and partnered with toll compounder AlphaGary (Leominster, MA) to produce the compounds. “This is not an additive technology but a fully formed pellet ready for processing,” explained Taylor. “We plan to have three grades available for the startup of production. We’ll be extruding a 1-mil black mulch film and 0.75- to 1-mil transparent mulch film starting in 2020, and looking to 2021 to translate this into packaging film.”

One of the primary benefits is that the material can be recycled along with PE, something that Taylor believes is the best end-of-life use for Radical Plastics’ material. She finds the idea of putting biodegradable products in a landfill at the end of their useful life a “huge problem,” she stated.

“We’re designing products to last for hundreds of years, but we also need to design products so that if they do leak into the environment they will biodegrade,” said Taylor, noting that it is not geared toward composting standards. “We can be more intelligent about designing packaging—retaining all the original properties but also making it recyclable.”

Taylor and Kann admit they are being cautious with how they promote their technology to avoid any appearance of hype. “We want to be prepared when we go to the packaging industry that our material is not just fragmenting but actually changing chemically,” said Taylor. “We’re both veterans of the plastics industry and we’ve seen so much of this hype in the packaging world that we’re being very cautious.”

Currently, Taylor and Kann are working with Cornell to do the respirometry testing with its soil science department and also performing eco-toxicity testing. U Mass Lowell, Taylor’s alma mater, is working with them, as well.

Radical Plastics, winner of the 2018 CleanTech Open National Competition and a top finisher in the 76West Clean Energy Competition, was recently named one of CleanTech Group’s 50 to Watch. The annual list catalogs the most promising early-stage private companies delivering high-impact solutions to the challenges of plastics in the natural environment.

Kann and Taylor are excited about their contributions to the plastics industry and the recent recognition for their work. “Plastics are a huge part of our life and bring tremendous benefits,” Taylor commented. “Recognition like this is proof that we can make an impact on the global problem of plastic pollution and that a startup has the potential to change the world.”

Source : Clare Goldsberry

BRIGHT COLORANTS ADD VERVE TO ENGINEERING PLASTICS

Milliken & Company has debuted KeyPlast Resist, a spectrum of bright, high-performance colorants for engineering plastics. Polyamide resins and high-heat engineering polymers present unique challenges in the world of plastics. The materials of choice in demanding electrical, automotive and industrial applications, polyamide resins high-heat

engineering polymers are subject to high-temperature processing and require steady, reliable performance properties, making vibrancy of color difficult to achieve.

Milliken has addressed this challenge with its KeyPlast Resist range of colorants, which were officially launched at the K 2019 in Düsseldorf, Germany in October. These products are specially designed for coloring engineering polymers such as polyamides, polyimides, PBT, polysulfones, PEEK, PPO and other high-heat resins and alloys. KeyPlast Resist can be used with unfilled, glass-filled, and flame-retardant grades of various polyamide types such as polyamide 6, 66, 46, and other high temperature engineering polymers.

“Keyplast Resist meets the strong requirements in another fast-growing application area—that of electrical vehicles and their charging system requirements,” said Sami T.K. Palanisami, Milliken Global Product Line Manager, Plastic Colorants.

The new range delivers the brilliant, consistent colors—including bright orange, yellow, red, blue and green—and the high-end properties that users demand. These colorants offer improved weather resistance and light fastness, are high purity and perform well in the high-temperature and chemically-reductive conditions typically associated with high-performance polymers.

Source : Stephen Moore

INEOS STYROLUTION INTRODUCES FIRST STANDARD ABS GRADES WITH POST-CONSUMER RECYCLED MATERIAL

Ineos Styrolution has introduced its first ABS (acrylonitrile-butadiene-styrene)

grades with mechanically recycled content, making them the first products of the newly launched ECO family. The new Terluran ECO GP-22 grade is the first contribution from Ineos Styrolution to meet Ineos' pledge to incorporate at least 325,000 tonnes/year of recycled materials into its products.

Ineos is collaborating with Austrian recycler Bage Plastics to scale up production of the Terluran ECO GP-22 grades. The partnership brings together Bage Plastics' high-quality ABS recyclates and first-class sorting technology with Ineos Styrolution's manufacturing expertise and innovative capabilities to create the best recycled ABS grades.

The two new grades Terluran ECO GP-22 MR50 and Terluran ECO GP-22 MR70 contain 50 and 70 percent of recycled post-consumer waste electrical and electronic equipment (WEEE), respectively. Both grades will be available in black.

The new material is intended to address primarily application in new household appliance and electronics products. Several European blue-chip companies have already started to evaluate the new material and plan first applications to enter the market soon.

"I am very proud that the product properties of the new Terluran ECO GP-22 match the mechanical property profile of its non-recycled counterpart," says Eike Jahnke, Head of Product Management, Terluran, Standard Products EMEA and project manager for the development of the new grades.

"These new grades will contribute to reducing the amount of waste that ends up in landfill. It is the right step towards a circular economy for styrenics and will help our customers reach their own recycling targets", adds Sven Riechers, Vice President, Business Management, Standard Products EMEA.

Source : Stephen Moore

REAL-WORLD SOLUTIONS TO THE PLASTIC WASTE CHALLENGE

During the summer of 2018, China made an announcement that would turn the recycling world upside down: It would no longer accept recycled materials from the United States and Europe. Up until that time, China had been accepting some 45% of the world's plastic waste imports. Now, the world's most developed countries would have to figure out—and quickly—what to do with the stacks of bales of mixed plastics and other recycle.

It didn't happen fast enough, however, and recycling companies were soon looking at mountains of plastic waste with nowhere to put them except in landfills. Much of the waste plastic has been shipped to Malaysia, which has started its own crackdown on imports of waste plastic from America and shut down illegal recycling facilities that have become dumping grounds for material nobody wants. Other Southeast Asian countries, including Thailand, Vietnam and India, are also taking steps to restrict the import of foreign plastic waste.

Much of the plastic waste being shipped to foreign shores from the United States and Europe was hard-to-recycle plastic and, even if it could be recycled, there was no market for it. The bales of recycled plastic—much of it mixed materials that would be impossible to sort—were dirty and not fit for turning into new flake to be sold back to companies to make products containing recycled material content.

How did we get into this mess? It all seemed so easy at first, when the Plastics

Industry Association (PLASTICS), then known as the Society of the Plastics Industry (SPI), developed an ingenious method for recycling plastics—chasing arrows with a number from one to seven in the middle indicating that this item could be recycled. The only problem was that numbers three through seven could not really be recycled. Only #1 (PET) and #2 (HDPE) were easily recyclable into material that converters demanded for new, recycled-content products.

However, instead of giving priority to #1 and #2 plastics, recycling systems in the United States went to the "single-stream" method, in which huge recycling bins were set up in neighborhoods where people could put all their waste: Plastic, paper, cardboard, glass and metals. Curbside recycling programs, which made consumers feel good about recycling, weren't much better. Single-stream recycling soon became a huge, dirty mess that resulted in some 25% of the materials collected in the blue curbside bins being sent to landfills, and that is a low estimate. Some say that it's closer to 70%, a result of China and many other countries refusing to accept recycle they cannot economically reprocess.

This dilemma created the development of innovative technologies to try and solve the problem of what to do with the plastics that can be recycled but aren't. Attempts are also being made to recycle difficult-to-recycle plastics. Taking a look at the various methods currently being used and why they are not working, as well as newer schemes that are being developed to address the issue might help us see where and why the system is failing.

Source : Clare Goldsberry

BUSINESS IN LIFE IS SUCCESSFUL WHEN IT GETS REPEAT ORDERS

Dr. Devdutt Pattanaik

Any business in life is successful when it gets repeat orders.

What makes a temple successful: success being measured as the number of people who worship there. There are numerous temples in India. Some temples are more popular than others, even if they are located in faraway mountains, in the middle of deserts, and you have to travel many kilometres to get there.

The cynic will say good marketing, or just habit. The faithful will say the popular ones are those where wishes are fulfilled. So, you have "Ichha Puri" temples or the temples that grant your wishes. It could be a Shiva, or Vishnu, or Devi, or Ganesh, or Murugan temple – any temple that satisfies your wishes typically is where people go. The wishes may range from peace of mind, to a child, to a job, to winning an election. Crowds increase when the 'wish-fulfilling power' is at its height, usually based on astrological configurations.

When a wish is fulfilled, people go back to the temple hoping to get another wish fulfilled. This is called repeat order. Any business in life is successful, when it gets repeat orders. Let's say there is a shop which sells all the things you want. You went there for the first time, because you wanted to buy, say, ten rare fruits. The shopkeeper gave you the ten rare fruits.

Next time you want them, you will go back to the same shop. In fact, when you go back repeatedly, the shopkeeper is very happy because he has repeated the order with you, therefore, he might even give you

a discount and this will make you value the shop even more and its keeper further. He makes money, your wishes are fulfilled. When you keep getting satisfied by these repeat orders, you also tell other people about these temples: your uncle and your aunt, and your friend, and your niece, your nephew, your husband, your wife and your child. This is called referral. With all temples, we see these two concepts, one is called a repeat order and the second is called a referral.



When we satisfy the wishes of people we become popular, we get repeat orders and we get referrals and get more and more people coming to us to satisfy their wishes that contributes to our success. To be successful, we speak of customer delight. Hindu gods know the value of devotee delight which results in repeat visits and referrals. The unique thing about Hindu temples is that they

are voluntary. You are not obliged to go to a Hindu temple. As a Christian, you may be obliged to go to a church; as a Muslim, you are obliged to read the Namaz and go to the mosque. But in Hinduism, there are no obligations, you go to temples, when you want, if you want, if you feel, you get positive energy or your wishes are fulfilled, or you get some other benefit from the temple.

Otherwise, you do not go. It is generally not incumbent for you to go to any Hindu temple, it is voluntary. In other words, this is a free market, there are no obligations, nobody holds you back. So success is purely voluntary, faith in the power of the deity to delight the devotee.



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