



PERSPECTIVE

Section S-71 Covering Eastern North Carolina

Newsletter of the Society of Plastics Engineers, Piedmont-Coastal Section, North Carolina
Promoting the Scientific & Engineering Knowledge of Plastics

Volume XXXIX No. 6
Feb 2015



Education Night

February 10th
2015

NC State Campus

5:00 BOD meeting
6:00 Dinner
7:00 Presentation and
Awards

Cost \$20, \$5 students
\$5 for 50/50 raffle

*More details on
page 15*

*RSVP Contact
by Feb 6th*

Maury Balik
balik@ncsu.edu

*A few **SPE**cial Words from our President*

We started the New Year off with a tour of Hayward Industrial in Clemmons North Carolina. This was a fantastic tour of their facility and an exemplary lean plastics manufacturer. I believe everyone can agree that it was very informative. It is very good for our group to see that there is such a disciplined manufacturing process being performed here in the Triad. I want to thank Greg Floyd, a senior engineer with Hayward, and the Carolina's section Councilor for leading us through the facility as well as organizing the tour. I would also like to thank Scott Pugh for the informative talk on quick color change implemented at Hayward. We had 22 SPE members/guests in attendance.

After the tour we enjoyed a fantastic meal from Tricia's Catering (Lexington, NC). After the meal we enjoyed a very good presentation by Scott Pugh on implementing lean practices to significantly reduce change over time and scrap rates. I look forward to the rest of the year with many other interesting companies on our schedule.

On February 10th we will be holding our yearly Education Night meeting at NC State University. This is always an enjoyable time as it is when we hand out the funds to the different educational facilities that we support. We also get to present the prize to the winner of this year's essay contest. We are currently working on the details for the main presentation which will be made by a student or students from one of the Universities that we support. The Board of Directors will be meeting at 5:00pm, dinner is planned for 6:00pm, and the awards and program will begin at 7:00pm. If you have not been to Education Night in the past I highly recommend that you try to attend this year. NC State has a great campus, the food is fantastic, and it is fulfilling to see the students participating as they begin their journey in the plastics industry.

Please see page 15 for all of the details and RSVP to Maury Balik by 2/6/2014 for dinner reservations at balik@ncsu.edu.

We are currently working on the March meeting and will have all of the details in next month's newsletter.

Best Regards,

Todd Bryant

President Piedmont-Coastal S71 SPE

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Lewis



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PERSPECTIVE is published electronically monthly from September through June, to inform members of the Section's activities, national events, and news. Communications should be sent to the Editor: Mike Jensen, mljensen514@earthlink.net or mikejen47@gmail.com telephone at 919-333-2003 (cell). To advertize in our newsletter, contact Tim Earley at 336-693-6466 wolftim@msn.com.

Our newsletter is available on our web page at International SPE two weeks prior to the next meeting, at

SPE4.org>communities>Sections>NC>Piedmont-coastal. You should be notified by e-mail when it is posted.

Neither the Society of Plastics Engineers or the Piedmont-Coastal Section is responsible for views that are expressed by individual contributors, either in the articles published in the newsletter or in any of the technical presentations.



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Education Night 2015

Maury Balik

Education Committee Chair

The February 2015 meeting at NC State University marks the annual Education Night for the Piedmont-Coastal Section. This year the section donated over \$6,600 in scholarships and grants to various institutions.

Our Wonders of Plastics Essay Contest winner is Olivia Zane from Enloe High School in Raleigh. Her essay, entitled "Print it Out, Scotty", describes the use of plastics in 3-D printing and is re-printed in this issue of the newsletter. Olivia will receive an iPad Mini and Enloe High School will receive a \$250 check.

Central Carolina Community College will receive \$500 to support the Tool and Die Program, and an additional \$1000 will be donated to the Dean Wakefield Memorial Scholarship Fund. These funds will be used to provide scholarships for CCCC students Joseph Miller and Michael C. Roberson. Kaitlyn Mawhinney is the recipient of the \$1500 SPE Senior Scholarship in the Department of Materials Science and Engineering at NC State University.

The Polymers Center of Excellence in Charlotte will receive a donation of \$1000, which will be used to support an interpreter for a hearing-impaired student. The Applied Technology program at North Carolina A&T University will receive \$1000 to prepare the plastics processing lab for ISO 9000 certification. Finally, \$1000 will be donated to SPE headquarters to support student activities at the annual ANTEC meeting.

The Piedmont-Coastal Section congratulates the students who received these awards and wishes them well as they complete their education and pursue jobs in the plastics industry.

Find Olivia's winning Essay on pages 16 and 17.

It's Goolsby Scholarship Time Again: Deadline March 2, 2015

Applications for the Richard Goolsby Scholarship Fund are now available online from Foundation For The Carolinas. The scholarship was created by William and Martha DeBrule in honor of Richard Goolsby, a plastics pioneer, and is sponsored by the Carolinas Section Society of Plastics Engineers.

The Fund provides college scholarships to students who have expressed career interest or demonstrated practical interest in the plastics industry with preference given to students living in the geographical area served by the Carolinas section of the Society of Plastic Engineers.

We ask your assistance in making your students and associates aware of this opportunity. If you have an organization or school newsletter, please feel free to post an announcement or spread the news via word of mouth and email.

Graduate and undergraduate applications are available through the Foundations' website at <https://fftc-scholarships.communityforce.com/Funds/Search.aspx>. Application deadline is March 2, 2015.

If you have any questions regarding the eligibility requirements or application procedures, please feel free to contact the Richard Goolsby Scholarship Fund at Foundation For The Carolinas email: scholars@fftc.org. You may also contact any Carolinas Section Board Member or Sue Booth at 704.641.6287 or sbooth@teknorapex.com.

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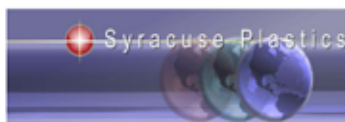
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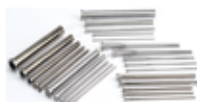
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MEMBERSHIP REPORT

Piedmont-Coastal Section S71

As of January 2015
we have 232 members!



We have 232 total members (including students) as of Jan 31. We have 80 student members. Thanks to CCCC, NCSU and North Carolina A&T State University for their support.

I encourage every member to sign up a new member in 2015. Let's all work toward increasing our membership. If you have changed jobs or location, please send me a note. If you have any email, employment, or phone number changes, please contact me as well.

If you have someone you feel can benefit from joining SPE, give them an application or send me their name and I will submit it to SPE and have you as the referring member.

The newsletter will be posted on the main SPE website this year. Go to SPE4.org>communities>Sections>NC>Piedmont-coastal.

With everyone using smartphones, newsletter it is better to download at your convenience.

Please note the new membership service "The Chain" from SPE HQ in the newsletter.

Also, send George Millington a note, thanking him for his great service as AD and membership chairmen for many years. (georgemillington@ec.rr.com).

If you have any questions, please contact me by e-mail at wolftim@msn.com.

Tim Earley, SPE Piedmont Coastal Section S71

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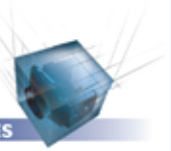
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***P-C SPE Meeting Minutes
BOD Meeting Jan 13th***

Location: Hayward Pool

Attendees: Rodney Joslin; Lewis Wilson; Leon Suttles;
Dan Fucella; Maury Balik; Tim Bryant; Bill Page; Pat
Mannella; Justin Patz

Meeting called to order by Leon Suttles- Section Vice
President at 4:10 PM

Meeting minutes from November 2014 BOD meeting
were reviewed and approved.

Treasurer Report- Tim Bryant

1. Current Bank Balance- \$21,220.38
2. Net Income: July-December 2014 is \$6,900.53

Motion made to approve the full Treasurer's report by
M Balik; 2nd made by L Wilson; motion approved.

Tim noted that the total payout for student scholar-
ship program for the 2014-2015 program year would
be \$6,678.95. Motion was made by M Balik to ap-
prove this plan; 2nd by L Suttles; motion approved.

Tim noted that the payment from the The Preserve is
still outstanding for the 2014 event however is ex-
pected to be received very soon.

Councilor Report- Rodney Joslin

Rodney confirmed that the Piedmont Coastal Section
had achieved the Pinnacle Gold award for 2014. This
achievement was duly welcomed for the section.

Russell Broome- SPE National Director is making
visits to colleges/universities with plastics education
programs at this time. Rodney in contact with Rus-
sell about scheduling visits to North Carolina based
institutions later in 2015.

Rodney will be attending the councilor sessions during
ANTEC/NPE 2015 in late March.

Future Meetings/Programs

February 2015

Education Night

NC State Centennial Campus/Raleigh

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The Piedmont Coastal Section S71 of SPE 2014/2015 advertising campaign to renew and recruit new advertisers for the Piedmont-Coastal Section monthly on-line newsletter, the "Perspective" is underway. Advertising in our monthly newsletter can lead to new customers for your organization – our newsletter is e-mailed to over 500 professionals in North & South Carolina and posted to the global SPE website. Our section is proud to be one of the top growing sections in the world. You can view our newsletters at the SPE website –

<http://www.4spe.org/Communities/sectiondetail.aspx?itemNumber=5389>. **Then click on the newsletter.**

Your support via an advertisement in our newsletter is vital to improving the current and future workforce in the plastics industry. A key mission of SPE is to promote and provide the knowledge and education of plastics and polymers worldwide. Locally, you can greatly impact the workforce in your area by advertising with us, as these monies are used to support local student scholarships and educational grant programs. We appreciate your consideration in assisting us to continue to provide support for training in the plastics industry.

Newsletter improvements, implemented without an increase in the cost of the advertisement, include:

- We have a quick link to your company website on the index page listing all our sponsors.
- Text and advertising are now more interspersed than before to ensure readers know the companies that support the Piedmont Coastal Section's programs and offer cost effective services and products.
- Our newsletter is published electronically and is posted to our Section Web Page and broadcast as an e-mail - an attachment to all our section members, other section members in our area and many non-member friends of our section – your ad will be sent to over 500 professionals - SPE members and friends of SPE throughout North and South Carolina.

We appreciate your support and hope that you will sponsor, or consider sponsoring an advertisement in our newsletter to support the Society of Plastics Engineers and its plastic industry supporting programs. Also – ½ page and full page Ads can be changed monthly in order for you to highlight different specialties of your company.

Fee Schedule – one cost covers one year (10 monthly issues)

Ad size – Ads may be in color	AD Cost Structure	Approx Print Size of Ad
• Business card (1/8 Page - 2"x3.5")	\$250	1.75" x 3.25"
• ¼ Page	\$475	3.5" x 4.75" or 2.25" x 7.0"
• ½ Page	\$900	3.5" x 9.5" or 4.75" x 7.0"
• Full Page	\$1,700	7.0" x 9.5"

An electronic version of your ad may be e-mailed to Mike Jensen, at mljensen514@earthlink.net or a hard copy (business card, etc.) may be mailed to: Mike Jensen, 420 Kings Hollow Drive, Raleigh, NC 27603. If you would prefer to make an educational donation to us without advertising, we will proudly recognize your sponsorship by posting your website on each newsletter and recognize your company on education night. Sponsorship levels are: Gold - \$200; Silver - \$150; and Bronze - \$100.

We appreciate your consideration in advance and we look forward to hearing from you.

Please submit your check payable to P-C Section, SPE to: P-C Section SPE, c/o Tim Earley, PO Box 1036, Mebane, NC 27301. If you have any questions or require an Invoice – please contact Tim Earley at 336-693-6466 or wolftim@msn.com.

The S71 Piedmont Coastal Section is a very active section and is proud to support the students and institutions in our area in their pursuit of the advancement of the plastics industry.

Tim Earley - Newsletter Advertising Chairman, P-C Section, SPE



Planning Calendar for 2014/2015

Date	Meeting Location	Sponsor	Speaker	Company	Topic	Tour	SPE Leader
02/10/2015	NC State	Tim Bryant Inc.	Student	NC State	TBD by Student	NCSU Engineering Library	Maury Balik
03/10/2015	Central Carolina CC, Sanford, NC	ATI	Historian Meeting	Central Carolina CC	Plastics Historical Round Table	CCCC Machining Program	Glenn Shearin
04/14/2015	Polymers Center of Excellence Charlotte, NC	PCE	Todd Bryant	PCE / Joint Meeting with Carolinas Section	Advanced Injection Molding and Demonstration	PCE Inj Molding & Ext labs	Todd Bryant
05/12/2015	Carolina's Section "Carolina's Cup Challenge" Golf Outing NorthStone CC, Huntersville, NC						
06/9/2015	P-C Section Planning Session for 2015/2016 year TE/Pegg Rd, Greensboro, NC						

March 2015

(Todd Bryant has confirmed the plant tour/program)

Dinner meeting location:

The Flame

Sanford, NC

April 2014

Greensboro area

L Suttles pursuing plant tour and program; Will be confirmed by February meeting

Membership Report- Tim Earley

No report available.

Advertising Report- Tim Earley

No report available

Education Report- Maury Balik

Results of the student essay contest was reviewed. Discussion was held about what the essay contest criteria currently exists at this time. Does the criteria need to be reviewed?

In summary the existing program (at this time) was acceptable. Maury plans to introduce this topic again during the annual planning meeting later this year.

Another topic regarding the essay program was to consider limiting the maximum number of essays that can be submitted from one educational institution- possibly 20 essays. This was also tabled until the annual planning meeting.

Maury will be reporting the essay winner at the February education meeting- there will be both recognition and award presentation.

Old Business

No items

New Business

Current update on Clark Broome surgery is positive to date.

Medical Mini-Tech- Dan Fucella

Dan has been contacted by Len Czumba about the P-C Section hosting a one day medical mini-tech. Dan is in

the process of getting the key criteria required for such an event. Per Dan recent events (Chicago/other sites) with 100 attendees and 20 table top presenters – these events had about \$5000 in net income. A portion of these funds would be received by the P-C Section.

Possible locations include: PCE/Charlotte; Winston-Salem or Raleigh-Durham

Table top exhibit fee: \$500

Attendee registration fee: \$150

Most feasible time frame appears to be either September- October 2015 or Spring 2016. Tim Bryant and Leon Suttles volunteered to assist Dan with the mini-tech program.

Action: Dan to pursue next steps on the mini-tech.

Motion was made to adjourn and approved.

Meeting adjourned at 5:06 PM.



We just want to remind you that **your fellow SPE members are one of your most valuable member benefits**. They can help you answer technical questions...solve process problems...maximize efficiency...find a consultant or contractor...promote your products or services...and network in your specialty, interest, or geographic area.

The SPE Online Membership Directory gives you access to the largest community of plastics professionals in the world—15,000 members in 70+ countries, searchable and reachable 24/7.

And it is *only* for SPE members. Use it to find and connect with the people, answers, and solutions you need. It's easier than ever!

To search the SPE Online Membership Directory, [log in](#) to your SPE membership account at www.4spe.org.

Piedmont-Coastal February Meeting Details - Feb 10th

Meeting site:

NC State University, Centennial Campus
Engineering Building 1
911 Partners Way

5-6 pm: BOD meeting in
Engineering Building 1 room 3003

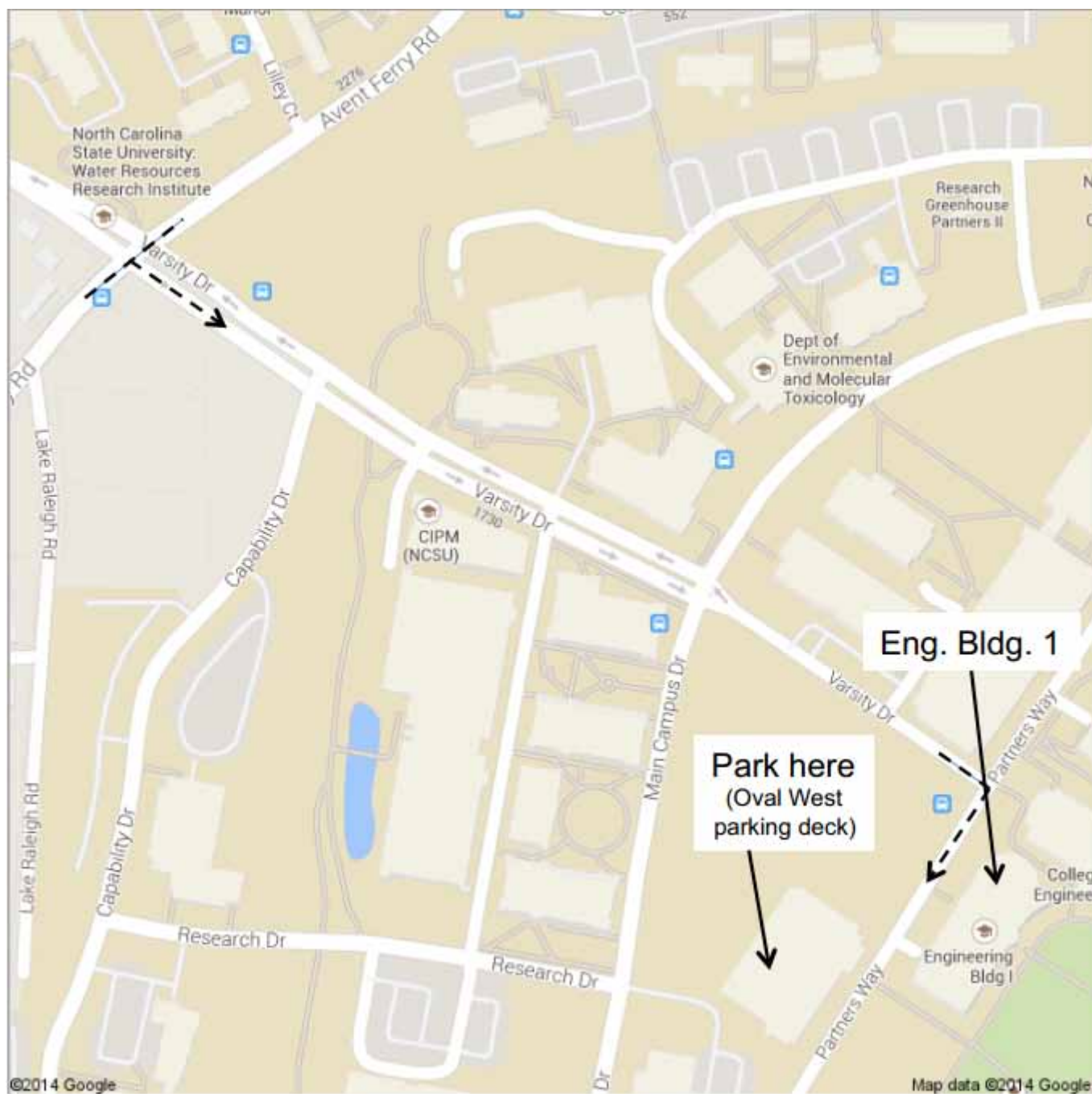
6-7 pm: Dinner in Engineering Building 1 room 1005

7 pm: Program and speaker

Dinner cost: SPE members \$20, Students \$5

Please have attendees RSVP to me at balik@ncsu.edu
<mailto:balik@ncsu.edu>.

The speaker will be Kenneth Mineart (NCSU student).
Title of presentation: A Processing Approach to the
Morphological Control of a Sulfonated Block Ionomer



Our 2015 Essay Contest Winner

Print It Out, Scotty ***by Olivia Zane*** ***Enloe High School***

Science fiction predicted many of the dominant inventions of today. Aldous Huxley's *Brave New World* forecasted anti-depressants, *The Jetsons* featured flatscreen televisions, and astonishingly, the *Star Trek's* replicator resembles the 3D printer. Experts predict the 3D printer will enable people in developing countries to produce a myriad of tools cheaply. One of the most economical and durable materials used by these printers is plastic. Fortuitously, an abundance of waste plastic exists, making the process even cheaper and eco-friendly. From combs to prosthetics, the printer produces a plethora of necessary products at a quick and nominally priced rate that enables people from developing nations to manufacture items once inaccessible or exorbitantly priced. Currently, 3D printer access remains limited, but scientists believe the partnership between plastic and 3D printing will soon improve the lives of billions in the developing world.

Many Americans remark they will live until they are one hundred years old due to modern medicine. The economies of the developed world allow most people to receive regular healthcare, so these expectations are conceivable. Medical care in the developing world lags behind that of the United States and other wealthy nations, but scientists hope that 3D printing will further healthcare systems affordably. In 2014, scientists printed a plastic tracheal splint for an infant. The trachea facilitates breathing and without it the infant would have died. As the printing moves to a larger scale, plastic parts may aid patients across the developing world who historically are unable to afford these lifesaving replacements.

Another example of the life altering effects of cheap plastic printed parts was a man who recently printed his son out a prosthetic hand. The boy gained the ability to carry things and draw. While a prosthetic hand usually costs tens of thousands of dollars, the boy's father utilized only a YouTube video, plastic, and the 3D printer available at his son's school. Without this 3D printer and plastic, the boy would have continued to live a handless existence. Untreated diseases and violent conflicts, common in the developing world, cause people to lose appendages; inexpensive prosthetics would permit many people to reenter the work force and escape poverty.

Health is the most valuable thing a person possesses, but what they do with that health greatly affects their lifestyle and those around them. 3D printing will accelerate plastic tool and prototype creation at an unprecedented cost, which will raise the quality of life and boost the economy in the developing world. 3D printers print wrenches, shoes, and even shelters.

Essay continued on next page (17)

Mass production is synonymous with the developing world as videos from sweatshops air on CNN and Fox, but these goods are rarely obtainable to the workers producing them. 3D printers increase levels of mass production so these items become accessible to workers. 3D printers also bring in parts that poor transportation once made impossible. Thermoplastics create affordable automobiles for impoverished people, which allow them to commute to higher paying jobs, reach commercial centers, and drive to schools from isolated communities. This will raise literacy levels and enhance people's lives as the transition to skilled labor becomes achievable.

Not only will health, education, and economic levels soar through printable plastic items, but also 3D printings quell environmental concerns pertaining to plastics. Researchers at the Michigan Technical University invented the Recyclebot, which transforms waste plastic into appropriate material for 3D printers.

Plastic filaments typically price at thirty-five dollars a kilogram, but recycled material reduces the fee to only ten cents a kilogram. Waste pickers in India already search for plastic pieces to sell to scrap dealers for the paltry fee of fifteen cents a kilogram. Converting this waste into plastic filament raises the value of it and promotes recycling. This practice encourages people of the developing world to recycle from an economic stance and fosters recycling in developed countries from a humanitarian stance. Diffusing the use of the 3D printer heightens the sustainability of plastic, as the same plastic is used multiple times rather than being exiled to the ocean or landfills.

3D printers utilizing recycled plastic promises a brighter future for the majority of the world's population. Squalor will become a bygone reality through the power of plastic. A more constructive reality of Brave New World will emerge, a world where everyone receives the necessities of life; not through a communist experiment, but through technology.

Too often, critics bemoan plastic; they fail to see all it can do for the developing world. Yet, through plastics, amputees regain lost limbs, education reaches village children, and product development and production quicken. All this is achieved through recycled plastic so the dystopian garbage-filled world prophesized in films, such as Wall-E, never come to be.

3D printing and plastic will progress the developing world; they will destroy the split between the two worlds. A fully developed world will emerge due to the wonders of plastic. Through plastics, all people will "live long and prosper."



ConGRaTulAtiOnS!