



# 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. 8  
April 2015



### **Tour of Finline April 14<sup>th</sup> 2015**

No BOD meeting  
(to be tele-conferenced  
on April 21<sup>st</sup>)  
5:00 Tour of Finline  
6:30 Dinner and Speaker  
at Manchesters  
9101 Leesville Road,  
Raleigh  
Cost - \$20  
\$5 for 50/50 raffle

*Presentation by  
John Bradford - Makino*

*More details on  
pages 3 and 15*

Questions? Contact  
**Leon Suttles**  
**586-863-7427**  
*ls@pcs-company.com*

Note: Press Release pg 10

### ***A few SPEcial Words from our President***

We had a great the tour of Mertek Solutions Inc. in Sanford, NC last month. Everyone who attended enjoyed seeing their facility and the high level of automation being designed and built for the plastics industry right here in North Carolina. Our meeting was a special event. For the first time in our section's history we held a "historian roundtable". A special thanks to Jack Lail, Peter Smith, Walt Cary, and Tim Bryant for the candid and colorful conversation enlightening each of us with the history of our industry. The Flame restaurant was consistent as usual and everyone enjoyed the meal they presented. I want to thank everyone who had a part in setting up this successful meeting: Tim Earley; Glen Shearin; Jerry Pedley from Merteck Solutions, and Tim Bryant. I also want to thank the sponsor for the evening, Dan Fuccella from Applied Technologies Inc.

Once again our Board has planned another fantastic tour and dinner. The Tour will be at Finline in Raleigh, NC. Finline Additive Manufacturing specializes in the rapid prototyping of three-dimensional objects. Within Finline, they offer three high-tech processes: stereolithography (SL), selective laser sintering (SLS) and direct metal laser sintering (DMLS). Whether small parts with precise geometries or large, highly detailed patterns are needed, their additive processes provide product developers another quick-turn option during early prototyping. The tour is planned to start promptly at 5:00 pm on April 14th. Please come out and see the latest in prototyping technology. You will find the location and directions details in the Newsletter sidebar.

The dinner presentation will feature John W Bradford from Makino Micromachining. In response to demand for new innovations from their customers, Makino is committed to providing new solutions for micro-scale manufacturing. It is their aim to foster innovation that will lead to engineering of new high value products that previously could not be made without their technology. Makino provides ultra-precision micromachining technologies for the most challenging parts and features. At Makino, they're machining parts with micro-scale features to micron level tolerances every day. As applications grow in complexity and shrink in size, they provide the milling and EDM solutions with the extreme accuracy and repeatability necessary to machine these micro and miniature parts. The presentation to the SPE members will highlight novel machine tool technologies that address micro scale manufacturing challenges, and will discuss the importance of implementing the supporting elements of environmental control, precision tooling, fixtures, and appropriate metrology systems. You will find the location and directions details in the Newsletter sidebar.

*continued on page 15*

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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](mailto:mljensen514@earthlink.net) or [mikejen47@gmail.com](mailto:mikejen47@gmail.com) telephone at 919-333-2003 (cell). To advertize in our newsletter, contact Tim Earley at 336-693-6466 [wolftim@msn.com](mailto: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.

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## Piedmont-Coastal April Meeting Details - April 14<sup>th</sup>

5:00 to 6:00 Tour of Fineline  
9310 Focal Pt, Raleigh, NC 27617  
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As the 3D Printing market heats up, we are sure to see several key mergers and acquisitions within the space. Consolidation is a natural occurrence within any growing industry, and that's certainly what we have begun seeing in the 3D printing industry.

In April 2014, Proto Labs (NYSE:PRLB), a NYSE traded company with a market capital of over \$1.5 billion, closed on an acquisition of North Carolina based FineLine Prototyping Inc. The value of the deal was \$37 million.

FineLine is a major prototyping force, which relies heavily on additive manufacturing. They use direct metal laser sintering, stereolithography, and selective laser sintering to produce prototypes for manufacturers around the world. They employ 85 individuals, and last year generated approximately \$9.7 million in revenue.

Proto Labs, on the other hand, is a firm specializing in prototyping, but mainly with subtractive manufacturing techniques. In the past, the company stated that they had no intention of investing in 3D printing; however this has clearly changed. The acquisition makes a tremendous amount of sense from a business standpoint. Currently about 70% of Proto Labs' customers also rely on prototyping via 3D printing. The acquisition is a natural move by the company, allowing them to cater to a larger portion of their customers' prototyping needs.



An Example of a Part Produced by  
FineLine Prototyping Inc.

***Dinner at Manchesters located at  
9101 Leesville Road, Raleigh, about 5 miles from Fineline  
<http://manchestersgrill.com/>***

After dinner presentation by Makino Micromachining:

(Bio of John Bradford (Speaker) on page 15)

In response to demand for new innovations from our customers, Makino is committed to providing new solutions for micro scale manufacturing. It is our aim to foster innovation that will lead to engineering of new high value products that previously could not be made without our technology. Makino provides ultra-precision micromachining technologies for the most challenging parts and features. At Makino, we're machining parts with micro scale features to micron level tolerances every day. As applications grow in complexity and shrink in size, we provide the milling and EDM solutions with the extreme accuracy and repeatability necessary to machine these micro and miniature parts.

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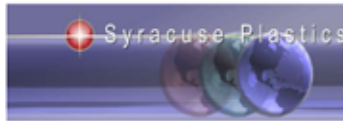
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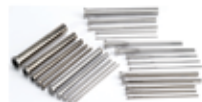
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## MEMBERSHIP REPORT Piedmont-Coastal Section S71

As of April 1, 2015  
we have 233 members!



We have 233 total members (including students) as of April 1. We have 85 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 for the 2015-2016 year. 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](http://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.**

If you have any questions, please contact me by e-mail at [wolftim@msn.com](mailto:wolftim@msn.com).

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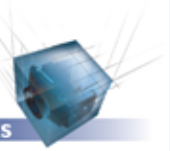
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<b>RJG</b> Process Monitoring, Control And Training	<b>IMSI</b> Hot Runner Controllers
<b>ZAG</b> Used Equipment Sales	<b>AEC</b> Applications Engineering
<b>UBE Industrial</b> Large Tonnage Molding Machines	Whitlock Material Handling and Blending
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***P-C SPE Meeting Minutes  
BOD Meeting March 10<sup>th</sup>***



**PRESS RELEASE**

April 2, 2015

**AIMET TECHNOLOGIES INC SECURES ADDITIONAL  
FUNDING**

Aimet Technologies Inc., the plastic injection molding company located in Zebulon, NC, announced today that it has entered into definitive agreements with a group of investors led by Gallatin Equity Partners, LLC to provide additional equity capital and working capital financing to support its growth initiatives and business development strategies.

Dave Jackson, founder and participant in the new round of financing, commented, "this additional funding and new partnership will bring needed financial resources necessary to support the ambitious growth goals the company plans to pursue". He further stated, "the proven operating and business development experiences provided by the partners in the investor group will strengthen our organizational resources and capabilities. I am excited to be an integral part of the investment group and welcome their active participation in operating, growing and realizing Aimet's ambition to become a major supplier to varied markets throughout the region". Julian Alexander, Managing Partner for Gallatin Equity Partners, commented, "we are delighted to become a part of Aimet's future. Over a long period of time we have intently searched for the right company to help us create and establish a major presence in the marketplace. With Dave Jackson and Aimet's manufacturing and engineering capabilities we have found the right partner and company."

**CONTACT:**

Tony Sturuss

919- 887-5205



Location: Martech Solutions, Sanford, NC

Attendees: Todd Bryant, Leon Suttles; Dan Fucella; Maury Balik; Walt Carey; Tim Earley; Glenn Shearin; Rodney Joslin; Tim Bryant

Meeting called to order by Todd Bryant-Section VP at 4:01PM

Meeting minutes from February 2015 BOD meeting were reviewed. Motion made by Walt Carey to approve and seconded by Tim Bryant. Minutes were approved as submitted.

**Treasurer Report- Tim Bryant**

1. Current bank balance: \$18,987.79
2. Net income: July 2014-February 2015: \$4667.94

Discussion was made concerning the number of newsletters which are sent. The answer was 10.

Motion made by Todd Bryant to accept the Treasurer's report as submitted by Tim Bryant- seconded by R. Joslin and approved.

**Councilor Report- Rodney Joslin**

Rodney planning to attend ANTECH/NPE. Per Rodney his employer – TE Connectivity has agreed to fund 50% of his travel expenses for this trip. Event is scheduled for late March in Orlando, FL.

Discussed the upcoming National SPE Bylaws changes which are being voted on. The main change is in allowing student members to vote and hold office. Discussion between the BOD members ultimately determined that the Piedmont Coastal Section is in favor of this with some concerns about student attendance of BOD meetings, local control questions, and what or do we have section bylaws. Todd Bryant is communicating with the Carolina's section to see what they have, Tim Bryant to check with National and Rodney to check with other sections.

**Future Meetings**

**April 2015**

BOD meeting and Plant Tour:

*Minutes continued on Page 14*



## SOCIETY OF PLASTICS ENGINEERS, INC.

13 Church Hill Rd, Newtown, CT 06470  
Phone: 203.775.0471 Fax: 203.775.8490  
[www.4spe.org](http://www.4spe.org)

### 2014 EXECUTIVE COMMITTEE

### CONTACTS

Chief Executive Officer	Willem De Vos	<a href="mailto:wdevos@4spe.org">wdevos@4spe.org</a>	
President	Vijay Boolani	<a href="mailto:vboolani@4spe.org">vboolani@4spe.org</a>	Website Technician
President-elect	Dick Cameron	<a href="mailto:dcameron@4spe.org">dcameron@4spe.org</a>	Pedro Matos
Senior Vice President	Scott Owens	<a href="mailto:sowens@4spe.org">sowens@4spe.org</a>	
Vice Pres & Treasurer	Dr Raed Al-Zubi	<a href="mailto:ralzubi@4spe.org">ralzubi@4spe.org</a>	Annual Awards:
Vice Pres & Secretary	Dr Jaime Gomez	<a href="mailto:jgomez@4spe.org">jgomez@4spe.org</a>	Sarah Sullinger
Vice Pres/Operations	Gregory Campbell	<a href="mailto:gcampbell@4spe.org">gcampbell@4spe.org</a>	
Vice Pres/Marketing	Thierry D'Allard	<a href="mailto:tdallard@4spe.org">tdallard@4spe.org</a>	Membership Programs:
Vice Pres/Global Event Mg	Dr Jeffrey Helms	<a href="mailto:jhelms@4spe.org">jhelms@4spe.org</a>	Sue Wojnicki
Vice Pres/New Sections	Oliver Crave	<a href="mailto:ocrave@4spe.org">ocrave@4spe.org</a>	



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## Society of Plastics Engineers - Piedmont-Coastal Section (S71)

### Newsletter Advertising Campaign Update

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](mailto: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](mailto: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
04/14/2015	Manchesters 9101 Leesville Road, Raleigh		John Bradford	Makino Micro- Machining	Micro-Machining	Fineline, Raleigh	Leon Suttles
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						

## Student Thank You's

Cory Roberson  
297 Woodberry Forest  
Pittsboro, NC 27312  
March 17, 2015

Dear SPE Piedmont-Coastal Members:

I'd like to express my sincere gratitude for the generous scholarship you have awarded me. I appreciate your recognition of my efforts. Receiving the SPE scholarship has had a profound impact on my life and will enable me to concentrate more on my studies without having to worry as much about finances. It will strongly assist me in realizing my dreams and becoming successful in my future endeavors.

It is very noble of you to give back to your profession and to those in similar fields in such a selfless way. I will certainly not forget your kindness when I am in the position to do the same for another person in need.

I am truly grateful to be a recipient of your generosity. Again, thank you.

Cory Roberson

SPE members,

I would like to thank you for your support and entitling me to the benefits of your scholarship. This not only takes some of the financial strain off my parents, but also allows me to further my education on my own standing. I am extremely grateful of your gratitude and this opportunity.

Sincerely,

Joe Miller

Fineline being checked on by Leon Suttles

Raleigh, NC

Program and Dinner Meeting:

TBD

Raleigh area

Micro Machining – Makino presenting.

Actions: R Joslin getting presentation information from Makino, Leon Suttles getting commitment from Fineline and determining restaurant.

### May 2015

Action: Need to confirm timing of planned golf tournament that is sponsored by Carolinas section.

### Membership Report- Tim Earley

Tim provided status report as follows:

228 members on role.

Tim is in the process of contacting the inactive members when possible and also checking with National SPE HQ on status of these individuals.

Tim suggests a survey to local companies asking for feedback on what would interest them.

Glenn Shearin indicated that renewals have the old SPE Headquarters address on them. Tim Bryant will contact National to check on that.

### Advertising Report- Tim Earley

Discussion was made to determine who would handle the advertising duties. It was determined that Tim Earley and Walt Carey will split the duties. Chris Jackson will help them. Tim will email the list of companies who advertise to all BOD members. Each BOD member can volunteer to contact a company that they may have a connection with. Any leftover will be taken by Tim, Walt, and Chris.

### Education Report- Maury Balik

Leon Suttles asked what SPE has available as education classes. Todd Bryant relayed that extrusion group offered a class at PCE which was SPE sponsored.

### Section Liaison- Todd Bryant

Todd Bryant indicated that he will discontinue his role as section liaison between the Carolina's and Piedmont Coastal Section's as he is no longer with PCE.

### Old Business

Dan Fucella reported that he contacted SPE Medical segment about an April 2016 Medical Mini-Tech (to be sponsored by Piedmont Coastal Section). Dan spoke to Len Czuba and there is interest in moving forward with this.

### New Business

Officers for next year need to be identified for the next meeting.

Meeting was adjourned by Todd Bryant at 4:55 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.

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



## ***A few SPEcial Words from our President - continued from pg 1***

We will not have a Board of Directors meeting on April 14th. Due to travel schedules of various Board members we will have the BOD meeting via online meeting on April 21st. Details to follow.

I would like to remind everyone that elections are coming up. If you are interested in getting involved with the local SPE leadership please let me or one of the Board members know. We are interested in getting new ideas and participation from other members. We will be sending a survey soon which I ask all members to provide feedback. This feedback helps guide us to provide the tours and speakers you are most interested in. When you receive the survey I urge you to take a minute and fill it out. It gives you as a member the opportunity to let the Board know what direction you would like us to go in, what your interests are, and how we can improve our organization.

Best Regards,

Todd Bryant, President Piedmont-Coastal S71 SPE

### **Short Bio of Speaker John Bradford - Makino**

John W Bradford

March 24, 2015

John's career with Makino began as an EDM Applications engineer, requiring expertise in both Wire and Sinker EDM. Through his hands-on experience and visibility to customer challenges, he led and coordinated the global development of a novel EDM CAM software that creates NC programs by combining characteristics of CAD with knowledge-based EDM parameter variables. During the span of 16 years at Makino, John has been actively involved in product management, sales & marketing support, team leadership, and research and development.



Throughout John's career at Makino, a keen interest for close tolerance machining and metrology have been primary motivators, providing an ideal vehicle for common engagement with Makino Japan's product development and engineering teams. John travels to Japan multiple times annually to exchange information on the latest technology advancements and market requirements. Through this exchange, John has assisted in the development and introduction of various technology and machine platforms into the US marketplace as well as providing direct support for more than 500 customers, both nationally and globally for technical training, product development, technology transfer and customer visits.

In 2006, John led the development of Makino's Micro machining R&D group for North and South America, beginning with a unique collaboration with Hummingbird Scientific in Lacey, WA, and today has expanded into a formal business unit for Makino which includes sales and marketing, focused R&D, applications, as well as service and support. John actively supports global micro manufacturing forums by hosting the MMSonline "ask an expert" for micro machining, provides quarterly technical columns for Cutting Tool Engineering's Micromanufacturing, as well as supplying regular webinar content for Makino's micromachining website. John also represents Makino at specialized exhibitions such as SPIE's Photonics and Opti-fab, SME Nano/Micro, and NSTI NanoTech among others. John is also actively involved in ASPE and has recently been nominated for election to ASPE's board of directors.

To keep in touch with practical machining challenges and solutions, John's current responsibilities in Micro-machining include daily machining and metrology operations using Makino's ultra-precision wire EDM, fine hole sinker EDM, vertical Micro machining center and various metrology technologies such as white light scanning laser, interference microscopy and ultra-precision coordinate measurement system for process development, validation and test cut support.