



April 2022 Newsletter

Virtual Meeting April 7th at 12 pm

featuring

Student Night at NJ SAMPE



SAMPE NJ Chapter



@NJSAMPE

Web: <http://njsampe.org>

Meeting Details and Abstract

Virtual meeting log-in details will also follow in an email announcement.



Presenting Students from NYU and Drexel College of Engineering

Maria Rehan

mr6398@nyu.edu

MS Materials Engineering

NYU Tandon School of Engineering



TANDON
SCHOOL OF
ENGINEERING

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**Meeting at 12 Noon
on Thursday April 7th**

You can also dial in using your phone:

+1 (646) 749-3122

Access Code: 938-787-933

Using Mushroom Mycelium for Packaging

Ms Rehan is pursuing a Masters program at NYU. She is studying the use mushroom mycelium to make packaging and disposable cups. This material will resemble styrofoam in look and feel but is biodegradable. This project will study a variety of mushrooms and develop various other materials which are not only biodegradable but also non-toxic and sturdy.

Meeting Details and Abstract

Virtual meeting log-in details will also follow in an email announcement.



Presenting Students from NYU and Drexel College of Engineering

Jaclyn McLaughlin

jam879@drexel.edu

B.S. - M.S. Materials Science Engineering

Drexel College of Engineering



Two-Component Resin Formulation for Digital Light Processing (DLP) 3D-Printing: Influence of Reactive Diluent on Vinyl Ester (VE) Properties

Ms McLaughlin is a Drexel University undergraduate student pursuing both BA and MS degrees in Materials Science and Engineering. Her work involves improving thermoset resins which are required to continue the expansion of additive manufacturing (AM), commonly known as 3D printing, throughout the industrial sector.

Vinyl ester (VE) resins are considered in this study for the development of high-performance photolithography resins, as these thermosets are known to be readily processable and achieve high thermomechanical performance. Alternative reactive diluent (RD) monomers including p-methyl styrene, N-vinyl pyrrolidone, and acryloylmorpholine, were evaluated to replace styrene in VE resins intended for AM. It was found that resin processability, printability, polymerization kinetics, and thermomechanical characteristics of printed VE thermosets were all influenced by the choice of RD that was used. The performance of these printed formulations all achieved T_g values over 100°C and room temperature storage moduli (E') above 2 GPa after post-cure, which are desirable properties in high performance thermosets

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2022 Elections
Call for Nominations



***Nominations are now open for the following
Chapter Board positions for the 2022-2023 year:***

- Chair
- Secretary
- Treasurer
- Programs Chair
- Membership Chair
- Educational Outreach Chair
- Director

Please submit all nominations to current Secretary via e-mail at amirislam@ballyribbon.com before April 30th.

In-person elections will be held at our May meeting.

In Memoriam:

SAMPE Fellow George Epstein



We note the passing of George Epstein at the age of 95. George attended Boston Latin School, UMass. Amherst, and MIT (chemistry). He proudly served in the Navy during World War II. In 1951, he moved to Los Angeles and had a distinguished career as an aerospace engineer. After retiring, he began his "second career". He wrote poker books and columns, taught classes, played at local casinos, and is in the Senior Poker Hall of Fame.

George was a SAMPE Fellow and was a member of SAMPE for more than 50 years.

OUR SCHEDULE THIS YEAR



***April 7th – Virtual via GoToMeeting
Student Night, featuring:***

***Maria Rehan – NYU Tandon School of Engineering
Jaclyn McLaughlin – Drexel College of Engineering***

May 19th – Location and Format To be Announced

Bryan Seren – Daicel Corp.

June 2022 – Location and Format To be Announced

New Jersey Additive Manufacturing Symposium

Please contact Vinay Mishra if you are interested in participating as a speaker or event sponsor.

vinay.mishra@jayhawkchem.com 620-202-2421

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on Thursday April 7th****

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Announcements



Check out SAMPE's new virtual networking site, SAMPE 365!

This is year-round platform connects innovators of the advanced materials and composites community from the private sector, government, and academia.

Anyone can create an account, but certain premium content will only be accessible to SAMPE members.



[Click here for more information](#)

Thank you to our sponsors!



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570-282-8588
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732-981-5246
joe.abrantes@evonik.com

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Ledgewood, NJ 07852
973-440-2872
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management technology. The privately held company is headquartered in Carbondale, Pennsylvania and supports its global customers through a worldwide distributor network and five other facilities in the U.S. (Rancho Cucamonga, California; Manchester, New Hampshire; Boston, Massachusetts), and the U.K. (Letchworth Garden City and Stranraer).
systems based on cyanate ester, epoxy, hydrocarbon and polyimide chemistries for aerospace, space, automotive and defense industries. Our company has developed the next generation of 5G materials for advanced semiconductor industries. We are also supplying 3D materials for leading OEM printing companies.

**For more information,
contact:**

Russell Caspe
Gentex Corporation
570-282-8588
rcaspe@gentexcorp.com

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Russell Caspe
Gentex Corporation
570-282-8588
rcaspe@gentexcorp.com

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Megan Casey
Total Cray Valley
610-427-3534
mbc872@gmail.com

SECRETARY

Amir Islam
Bally Ribbon Mills
610-845-2211
amirislam@ballyribbon.com

PROGRAMS

Howard Kliger
732-469-6330
hskliger@comcast.net

MEMBERSHIP

Melissa Jaime
Vertellus LLC
973-440-2872
mjaime@vertellus.com

STUDENTS

Joe Abrantes
Evonik Corporation
732-981-5246
joe.abrantes@evonik.com

ADVISOR-AT-LARGE

John F. Osterndorf
973-248-5885
jfo0956@gmail.com

DIRECTORS-AT-LARGE

Louis A. Pilato
Pilato - Consulting
732-469-4057
lapilato@optonline.net

Vinay Mishra
Jayhawk Fine Chemicals
Corporation
620-202-2421
Vinay.mishra@jayhawkchem.com

Past Chairs, Fellows and Honors



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1989 – 1990 Benjamin M. Rasmussen
1990 – 1991 Harry Tenney
1991 – 1993 Louis A. Pilato
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1995 – 1996 Frans van Antwerpen
1996 – 1997 Kathleen A. Froelich
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1999 – 2013 Benjamin M. Rasmussen
2013 – 2018 Borys F. Schafran
2019 – Russell J. Caspe

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Charles N. Muldrow
John Osterndorf
Louis A. Pilato
Benjamin M. Rasmussen
William D. Timmons
Raymond F. Wegman
Charles Weizenecker

SAMPE Best Chapter Award Winner:

1990, 1991, 1992, 1993, 1995, 1996, 1997, 1998, 1999, 2000, 2001

SAMPE Chapter Service Excellence Award Winner:

2002, 2003, 2004, 2005, 2006 (award retired after 2006)

SAMPE Chapter Sponsored Conferences:

ISSE – 1990 (Anaheim), 1994 (Anaheim), 1996 (Anaheim), 1998 (Anaheim), 2002 (Long Beach)

ISTC – 1981 (Mt. Pocono), 1989 (Atlantic City), 2006 (Dallas), 2009 (Wichita), 2012 (Charleston)

ISEC – 1994 (Parsippany)



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New Jersey Chapter



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