

2016 SECTION AWARDS



PINNACLE GOLD



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MEETING LOCATION:

Olde Mill Inn

Fieldstone Room (board meeting)

Morris Room (dinner)

225 Morristown Rd. (Rt. 202)

Basking Ridge, NJ 07920

THURSDAY JANUARY 19, 2017

4:00 PM Board Meeting 5:30 PM Networking

6:00 PM Dinner and Speaker Presentation

	Member	Non-Member
Advance (before Noon 01/18/17)	\$40	\$45
At Door	\$45	\$50
Prosp. Mbr/Sig.Other/Guest		\$25
Unempl. Mbr.	\$15	
Students (show I.D.)	\$15	

R.S.V.P. to: Mr. Pete Hayles, Jr.

peterhayles11@gmail.com 732-569-2368

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JANUARY 19, 2017

APPLICATIONS OF ORGANIC AND NANOSTRUCTURED MATERIALS TO FLEXIBLE ELECTRONICS, ENERGY STORAGE, AND SENSING

DR. ASHOK MALIAKAL
LGS INNOVATIONS

Organic light emitting diodes have arrived in a big way, finding application early in cell phones and now appearing in large television displays. These materials have led the field of flexible electronics, but are only the first in a series of organic and nanostructured materials which will eventually transform the way that we communicate, harvest energy, and sense the world around us.

This talk will present work on inorganic oxide core-polymer shell nanoparticles and their application as high K dielectric materials for organic thin film transistors, high energy density capacitors, and actuators. To ensure reliable performance of organic semiconducting devices it is important to be able to control doping profiles and to understand diffusion of dopants within polymer and small molecule organic semiconductors. Work will be presented on new approaches to measure dopant and small molecule diffusion within semiconducting polymers. Finally, with the rapid growth of the Internet of Things (IoT), the demand for sensors has increased and better approaches are needed to interface the digital and physical worlds. Graphene as a new material has shown great promise for sensing applications. Work in this area will be discussed as well.

continued on page 2

UPCOMING MEETING DATES

Jan. 19, 2017	Section Meeting
Feb. 16, 2017	Section Meeting
March, TBD	Meeting at Rutgers
April 20, 2017	Section Meeting
May/June, TBD	Awards Meeting

PRESIDENT'S MESSAGE

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Happy New Year fellow members of the Palisades-New Jersey Section. I trust that all of you had an enjoyable and relaxing holiday break, and that no one was forced to consume re-gifted fruitcake against their will.

As we embark on another calendar year of Plastics Industry events and conferences, I urge all our members to get involved. Get involved in local events, TOPCONs and our monthly dinner meetings. Our board members have been working diligently to make our regional TOPCONs and meetings as enjoyable and educational as possible. Our "new" venue at the Olde Mill Inn in Basking Ridge has received Trip Advisor's Certificate of Excellence the last 4 years in a row, and has proven to be an ideal site for our Section's meetings in terms of its location, facilities and catering services. If you haven't been to one of our meetings recently, please plan on joining us for one of our upcoming events as we think you will be pleasantly surprised with the technical presentations, the networking opportunities, and the venue.

This month, we look forward to our January 19th dinner meeting where we will welcome our guest speaker, Dr. Ashok Maliakal. In 2006 Dr. Maliakal was cited as a member of MIT Technology Review's TR35 class of top innovators under the age of 35 for his work on novel nanocomposite dielectric materials. Dr. Maliakal will tap into his 20+ years of experience in materials science, nanotechnology and semiconducting polymers and will present his latest work on inorganic oxide core-polymer shell nanoparticles and their application as high K dielectric materials for organic thin film transistors, high energy density capacitors, and actuators.

On behalf of the SPE Palisades-New Jersey Section Board of Directors, I wish everyone an happy and prosperous 2017, and we hope to see you on the 19th.

Stu

Stuart J. Kapp



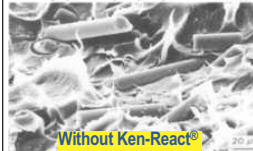
Speaker bio:

Dr. Ashok Maliakal is a Principal Investigator and Member of Technical Staff at LGS Innovations. He received his bachelor's degree from Cornell University in 1996 and Ph.D. in 2003 from Columbia University. Dr. Maliakal joined Bell Labs after his Ph.D. and worked from 2003-2008 in the Materials for Communications Research Department in Murray Hill, NJ. He joined LGS Innovations in 2008. Dr. Maliakal has extensive experience in the design, synthesis, and characterization of new materials and devices with applications in organic electronics, energy storage, actuation and sensing, and nanotechnology. In 2006 Dr. Maliakal was cited as a member of MIT Technology Review's TR35 class of top innovators under the age of 35 for his work on novel nanocomposite dielectric materials. Dr. Maliakal has led technical efforts at LGS/Bell Labs in the areas of chemical sensing, high energy density capacitors, and composite armor. Dr. Maliakal holds a DoD secret clearance.

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The SPE Vinyl Plastics Division is issuing a call for papers for Vinyltec® 2017 for topics including:

- Additives/Modifiers—Plasticizers, Heat Stabilizers, Antioxidants, Fillers, Rheology Modifiers, Impact Modifiers, etc.
 - Processing—Extrusion, Foam, Sheet, Plastisol, Dry Blending, etc.
 - Applications—Automotive, Construction, Medical, etc.
 - Regulatory—LEED, USGBC, OSHA, REACH, etc.
 - Sustainability—Life Cycle Analysis, Renewable/Sustainable Additives, Recycling, etc.
- To make a presentation, or suggest pre-conference seminar topics:

Contact [Tara Smith](#)
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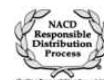
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