



ESA Newsletter

Electrostatics Society of America - The Friendly Society

President's Message

It is a great honor to write to you as your new president and to lead this friendly society with such an inspiring mission and record of performance. I hope to continue the legacy of the great ESA presidents of the past. I have enjoyed ESA conferences since my first meeting; the people are friendly, and I feel the fine spirit of cooperation, helpful suggestions, and graciousness. I owe a lot to many of you, starting with Shesha Jayaram, for introducing me to ESA when I was looking for an interdisciplinary conference to present my biotechnology work. I further extend my gratitude to Kelly Robinson, our previous president, and Barb Crowley, who gave me a chance to host it at Purdue (in response to my innocent question at the registration desk of 2006 San Francisco meeting as to the location of next year's conference), and to Al Seaver, who nominated me to this prestigious and honorable position. I would also like to acknowledge Barb and Joe Crowley, Mark Horenstein, Steve Cooper, Sheryl Barringer, and many others (too many to name here) who helped me in many ways.

On behalf of other ESA members and myself, I would like to commend Kelly Robinson, our outgoing president, for his fine job during the past three years. In addition, he taught me, coached me, and guided me by sharing his knowledge and experience when I was the General Conference Chair in 2007 at Purdue, West Lafayette, Indiana. I owe Kelly a lot for making the 2007 conference a great success and many others also helped. Thank you so very much Kelly, for your excellent leadership, dedication and commitment to the ESA and to your continued service as an Executive Member as well as the Technical Program Chair for next year's conference.

ESA-2008 was a great conference and I thank all who helped make it possible (see Reflections elsewhere in this newsletter for those involved and for pictures). In particular, many thanks are due to Al Seaver, Toni Seaver and Brian Seaver for hosting the 2008 ESA conference at the Ramada Mall of America, Bloomington, MN. The whole family worked hard and made the conference a great success. Thanks also go to Steve Cooper, for handling registration at the conference, Edmund Devitt and Bill Wayman for assisting in the recording of the talks, Joe Crowley for getting refreshments to the Hospitality Suite, and special thanks are extended to all the spouses who helped keep the Hospitality Suite continually stocked with a supply of food and refreshments. Kelly Robinson also deserves special thanks for graciously allowed his laptop to be commandeered at the last minute to support the recording of the presentations. He should also be complimented on keeping the atmosphere of the conference informal and for making the banquet's award ceremony loose but professional.

You will be very pleased to know that this time our ESA meeting was attended by researchers from several countries including Botswana, Canada, India, Japan, Philippines, and the UK. We had 61 attendees for the technical session, 67 for the banquet and 70 for the boat ride. I wish to thank each and every one of you for your attendance and for having graced the occasion with your presence.

A special and fun aspect of our conference was Glenn Schmiegl's entertaining, educational, and informative banquet presentation, "Creating More Science Nerds". I know many students are eager to return to the ESA conference thanks to Glenn. I am also one of those among many, who look forward to the banquet because of Glenn. His command over physics and its variety of applications is unparalleled and unique only to our ESA conference. Thank you so much, Glenn.

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President's Message (cont'd.)

All of you, especially those in academia, will be happy to know that from now on there is NO (yes, you read it correctly) registration fee for a student presenter who is also an author or co-author of a paper. We hope this will be a great incentive to the next generation of members and that they will continue to attend ESA meetings. This is possible thanks to the able management of our funds by Steve Cooper, who does an exemplary job in handling the finance shrewdly and keeping us in good stead. Hats off to you, Steve.

Elections were held at ESA-2008 and I am happy to announce the election of our new Governing Board. In addition to myself being elected as your President, the Vice President is John Gagliardi, a great researcher and a long time member of the ESA, and our three Executive Council members are Sheryl Barringer, who had been serving as Technical Program Chair for several years, Steve Cooper, also acting as our Secretary/Treasurer, and Kelly Robinson, our recent past ESA President. With all these able representatives, I hope we will be able to serve you in the best possible manner. Please let us know what else we can do to serve you more and better. I hope you enjoy the online e-proceedings (http://www.case.edu/cse/eche/ESA2008_Proceedings/), and the availability of both the papers and the talks over the web (to be announced in the next newsletter), free of charge. Many thanks are also due to Mark Horenstein for web management and to Mark Zaretsky for the Newsletter and all the others who serve the society in many ways.

You all will be happy to know that we have location commitments for our next two conferences.

June 16-19, 2009: Boston University, Mark Horenstein

June, 2010: University of North Carolina, Charlotte, Maciej Noras

We had more than twenty new members at this year's conference. I look forward to seeing all of you and the additional new members at the 2009 and 2010 conferences. These annual events lie at the core of the ESA and its activities and so, please bring your colleagues and friends who are in this field.

Electrostatics is the basic phenomena in many concepts and applications. It is becoming increasingly more important in the emerging areas of biotechnology (including drug delivery) and micro-electromechanical systems (MEMS) and nano-electromechanical systems (NEMS). As part of our mission, we strive to provide you with quality services that are deemed an exceptional value. We would also like to hear from you. Please drop me a line or two about what you think and how we can serve you better. All your suggestions/comments/recommendations/concerns/appreciations, both negative and positive, are of interest to us and we will try to take care of them.

Thank you so much and have a very productive and interesting time.

Yours for the Friendly Society,

Raji Sundararajan,

ESA President

Calendar

- ✓ 11th Int'l. Conf. of Electrostatics. May 27-29, 2009, Valencia, Spain, Contact: Dr. Pedro Segovia, Tel: (+34) 96 136 66 70, pedro.llovera@ite.es, website: <http://electrostatics.ite.es> (abstracts due Feb. 29, 2008)
- ✓ ESA-2009, June 16-19, 2009, Boston, MA Contact: Mark Horenstein, Tel: 617-353-5437, mnh@bu.edu, website: <http://www.electrostatics.org>
- ✓ ESA-2010, June, 2010, Charlotte, NC Contact: Maciej Noras, Tel: 704-687-3735, mnoras@uncc.edu, website: <http://www.electrostatics.org>

ESA OFFICERS

President:

Rajeswari Sundararajan, Purdue Univ.

Vice President:

John Gagliardi, Rutgers Univ.

Executive Council

Sheryl Barringer, Ohio State Univ.

Steve Cooper, Mystic Tan, Inc.

Kelly Robinson, Electrostatic Applications, LLC

2008 ESA Annual Conference Reflections

Albert Seaver, ESA-2008 General Chair; Dan Lacks, ESA-2008 Technical Chair and Kelly Robinson, Past President

We are delighted that our 2008 ESA Annual Conference was such a great success. This is a tribute to those who helped make the conference a memorable event.

Toni Seaver – Spouses Chair & Hospitality Suite Organizer
Al Seaver – General Chair



Dan Lacks – Technical Program Chair



Conference participants were honored by three keynote presentations.

Nilton Renno
University of Michigan
Electric activity and dust lifting
on Earth, Mars, and beyond



Keynote Speakers
Bartosz Grzybowski
Northwestern University
Contact electrification:
Mechanism(s) and Applications



G. S. Peter Castle
University of Western Ontario
Contact Charging Between Particles:
Some Current Understanding



Our Student Paper Competition enabled conference participant to hear several excellent student presentations.

Award	Student	University	Title	Faculty
1st	Keith Forward	Case Western Reserve University	Triboelectrification of Binary Granular Mixtures	Lacks
2nd	Jeremy Stark	University of Arkansas at Little Rock	Measurements of Electrostatic charge and Aerodynamic Diameter of SubMicron Particles by the ESPART Analyzer	Mazumder
2nd	Jason Robison	University of Arkansas at Little Rock	Computer Simulation of Electrodynamic Screens for Mars Dust Mitigation	Mazumder
3rd	Jacob Bock	University of Arkansas at Little Rock	An Efficient Power Management Approach for Self-Cleaning Solar Panels with Integrated Electrodynamic Screens	Mazumder
3rd	Hiditaka Ishihara	University of Arkansas at Little Rock	Control of Surface Charge Density of Microtoner for High Resolution Imaging	Mazumder
3rd	Isaias Ramirez	University of Waterloo	Study of Laser Ablation and Mechanical Properties of Silicone Rubber Nanocomposites	Jayaram
3rd	Nikola Toljic	University of Western Ontario	Determination of Particle Charge to Mass Ratio in Electrostatic Applications: A Brief Review	Castle
3rd	Jinfeng Zhang	University of Oklahoma	Electric Field in a Rectangular Channel with an Electrohydrodynamic Gas Pump	Lai



Nikola Toljic – 3rd Place



Jinfeng Zhang – 3rd Place



Award Presentations – ESA Distinguished Service Awards

Mark Horenstein for founding the ESA Website in 1995 and for his continued innovative improvements of the website.



Joe & Barb Crowley for their development and continuous production of the ESA Proceedings (in book form) which they started in 1994.



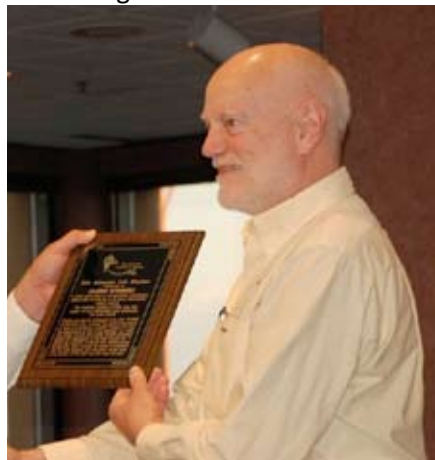
Award Presentations – ESA Honorary Life Member

recognizes significant contributions made to both the ESA and to the field of electrostatics

Joe Crowley for his classic text, many papers & patents, and exceptional service to the ESA.



Glenn Schmiegl for his book "PHYSICS IN EVERYDAY LIFE," presentations at science museums & banquets, and long service to the ESA.



G. S. Peter Castle for his devotion to improving the environment, fundamental studies in electrostatics, many papers & patents and long service to the ESA.



Award Presentations -- ESA Lifetime Achievement Award (a.k.a. Award of Merit) was established in 1984 and is awarded for substantial contributions to the field of electrostatics

Chuck Gallo
for contributions to the understanding of corona and corona generation.

Malay Mazumder
for contributions to the understanding of charged particles and for the development of the ESPART analyzer.

John Robertson
for innovative use of electrostatics to create businesses and products in the industrial environment.



Those making their first presentation at an ESA Conference are presented with a "Kite and Key Pin." Outgoing ESA President Kelly Robinson adds a little humor as he shrinks down to be in the front row with first time ESA speakers.

Award Presentations - 15 Kite & Key Pins presented to honor 1st Presentations

From Left: Robert Prance, Oleg Kondratov, Warly Dela Cruz, Keith Forward, Jinfeng Zhang, Jacob Bock, Sarah Snyder, Hiditaka Ishihara, Brian Seaver, Nikola Toljic, presenter: Kelly Robinson, Jeremy Stark



Bartosz Grzybowski



Teresa Carvajal



Nilton Renno



John Szafranec



Glenn Schmieg – Banquet Speaker
Creating More Science Nerds



And at the banquet, the ESA Membership unanimously elected a new slate of officers lead by President Raji Sundararajan and Vice President John Gagliardi.

ESA Executive Board Members elected for 2008-2010

Steve Cooper, Vice-President John Gagliardi, President Raji Sundararajan, Kelly Robinson, and Sheryl Barringer



**Electrostatics
Society of America**



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ESA Information

ESA Home Page: <http://www.electrostatics.org>

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**ESA-2009 Annual Meeting: June 16-19, 2009
Boston University, Boston, MA**

**ESA-2010 Annual Meeting: June, 2010
University of North Carolina, Charlotte, NC**