

JOINING NEWS

NEWSLETTER OF THE SOCIETY OF PLASTICS ENGINEERS JOINING OF PLASTICS AND COMPOSITES SPECIAL INTEREST GROUP

Message from the Editor

Dear Members,

I would like to take this opportunity to thank all of you for being involved in the Joining of Plastics and Composites Special Interest Group. We are currently the third largest SIG in the Society of Plastics Engineers with 1,117 members! Our webpage on the SPE website is now up and running: [SPE Joining of Plastics and Composites SIG](#)

During a recent board meeting, the current volatility of international travel policies were discussed and our SIG has put out the following statement to our members "The Society of Plastics Engineers' Special Interest Group on Joining of Plastics and Composites invites and encourages interested scientists and engineers to participate in our sessions regardless of religion, nationality, race, and sexual orientation. We value the free exchange of information and we welcome all." For more interaction with our group members, current, past and new members of the Joining of Plastics and Composites SIG are encouraged to join the LinkedIn group for our SIG which is 71 members strong. You are welcome to use to LinkedIn group as platform to post jobs, host discussions, share news, and communicate about joining events and issues. **For joining the group please sign up here:** [SPE Joining of Plastics and Composites Special Interest Group on LinkedIn](#)

At ANTEC 2017 which was held in Anaheim, CA this May 8th - 10th, we had an excellent line up of sessions with equal participation from our academic and industry members. We sincerely appreciate the hard work of those who helped organize the sessions, the many who volunteered to review papers, and the writers and speakers. Additionally, many thanks to all the attendees, without whom we could not have a good conference. At ANTEC we had two sessions this year, one on Mechanical and Adhesive Joining, and the other on Ultrasonic and Laser Welding of Plastics and Composites from which group our paper of the year was selected by the panel of paper reviewers. The honor went to Eduardo Etzberger Feistauer, for his paper titled, "ULTRASONIC JOINING OF THROUGH-THE-THICKNESS REINFORCED TI-4AL-6V AND POLYETHERIMIDE HYBRID JOINTS."



Eduardo was presented his award by Global Director, Applications Engineering at Branson Ultrasonics, Sophie Morneau

We hope to see you at [ANTEC 2018](#), which will be held in Orlando, Florida May 7-9 2018 co-located with NPE 2018 providing our sessions a larger platform and the opportunity to meet with the 65k+ plastics industry colleagues who are expected to be in attendance at NPE 2018. As always, please mark your calendars -Papers are due for submission in December 2017! Go here for details and to make a submission: [ANTEC 2018](#)
Wish you all an enjoyable summer!

Shankar Srinivasan,
Newsletter Editor, Joining of Plastics and Composites SIG

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ANTEC 2017 WRAPUP

For everyone who missed this year's ANTEC conference, below are the papers that were presented. If you are interested in obtaining a copy of these papers, please contact SPE.

Session Theme: Mechanical and Adhesive Joining

PAPER TITLE	SPEAKER
BIO-INSPIRED TEXTURED COMPOSITE SURFACES WITH INCREASED HYDROPHOBICITY	Ali Anwer, University of Toronto
BIO-BASED CONSTRUCTION ADHESIVES	David Grewell, Iowa State University
BONDING OF PLASTIC PARTS WITH DISPERSION ADHESIVES FILM FORMATION VIA DIFFUSION PROCESSES	Matthias Hopp, Paderborn University
AN OVERVIEW ON THE MATERIALS AND MECHANICAL BEHAVIOR USED IN FUSED DEPOSITION MODELING	Rielson Falck, Helmholtz-Zentrum Geesthacht
RELAXATION BEHAVIOR OF METAL-PLASTIC-COMBINATIONS MECHANICALLY JOINED BY CLINCHING	Eric Brueckner, University of Technology Chemnitz
COMPARING PLASTIC STAKING TECHNOLOGIES	Jason Dornbos, Extol, Inc.

Session Theme: Ultrasonic and Laser Welding of Plastics and Composites

PAPER TITLE	SPEAKER
UTILIZING DYNAMIC HOLD CAPABILITY OF SERVO-DRIVEN ULTRASONIC WELDERS IN STUDYING COOLING PHASE OF THE ULTRASONIC WELDING PROCESS	Alex Savitski, Dukane Corporation
DEVELOPMENT OF AN APPROACH TO DETERMINE MINIMUM AMPLITUDE REQUIRED FOR ULTRASONIC WELDING	Miranda Marcus, EWI
ULTRASONIC JOINING OF THROUGH-THE-THICKNESS REINFORCED TI-4AL-6V AND POLYETHERIMIDE HYBRID JOINTS	Eduardo Etzberger Feistauer, Helmholtz-Zentrum Geesthacht
SIMULATION-BASED INVESTIGATION OF THE TEMPERATURE INFLUENCE DURING LASER TRANSMISSION WELDING OF THERMOPLASTICS	Patrick Lakemeyer, Paderborn University
STERILIZATION EFFECTS ON THE MECHANICAL PROPERTIES OF LASER-WELDED POLYMER SPECIMENS OF POLYPROPYLENE AND POLYCARBONATE	Kai Holl, Private

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