Adhesion Connection

a semestrial update from the society









The Adhesion Society

2022 EDITION

Letter from the President

Dear Adhesion Society Members,

Last February we had a wonderful in-person meeting in San Diego. I don't know how it was for you, but for me the 2020 Annual meeting was my last in-person meeting before COVID and the 2022 meeting was my first in-person conference in two years. It was an amazing experience to be able to re-connect with our community during the meeting. I fully enjoyed all of the phenomenal lectures, award sessions, posters, and, of course, the great discussions that accompanied the whole week.

Niels Holten-Andersen and Amy Peterson put together an exciting program. They worked together with our Division Chairs, session organizers, and countless additional Society members who



Joelle Frechette, President, Adhesion Society

volunteered their time to make the 2022 meeting such a successful experience. Thank you! Our meeting included a luncheon to celebrate the President's award given to Anthony Kinloch, the Excellence in Adhesion Science Award, sponsored by 3M, given to Bo Persson, the Early Career Adhesion Scientist Award, sponsored by the ASC, given to Chelsea Davis and, finally, Dohgyu Hwang for the 2021 Distinguished Paper Award, sponsored by Henkel.

Looking forward, I know that the 2023 Program Co-Chairs Amy Peterson, Michael Bortner, and Chelsea Davis are working hard to organize another great Annual Meeting in 2023. We are excited to be planning for an in-person event to be held February 19-22, 2023 in Orlando, FL, USA. The program committee has planned numerous sessions, many of them cross-cutting across our Divisions. The program will cover emerging areas, sustainability, advances in research and development in adhesion science and engineering, as well as fundamentals. We will also celebrate the 2023 Award Winners, Michael Thouless for the Excellence in Adhesion Award, Jonathan Pham for the Early Career Award, and Eric Breedlove, 3M Company for the 2022 Distinguish Paper Award. As a first, the meeting will also have a Diversity, Equity, and Inclusion panel and a Career panel. The registration and abstract submission are open. We are looking to see you in Orlando and to learn more about your work. Feel free to reach out to us if you would like to be involved in helping to plan the meeting and future events.

Beyond the upcoming Annual Meeting plans, our amazing Executive Committee and many member volunteers have been busy. We have renewed our contract with ASC and will continue to work with them, and with Malinda Armstrong for the next five years. Malinda Armstrong has worked diligently to transition to our new website and database platform. Grace Wan is our new Sustainability Chair and is working with the Programing committee to include sustainability content in the program as well as to help us pursue more sustainable avenues to run our Annual meeting. Similarly, Kim Felix is our new DEI chair. She's helping us gather data on the diversity of our membership, as well as helping us with the planning of the DEI panel at the meeting. I also want to thank Aaron Forster and Chris Campbell who are doing a second term on the committee and as such bring a ton of invaluable knowledge (and keep us on our toes

continued on next page

EXECUTIVE COMMITTEE PRESIDENT

Joelle Frechette

University of California, Berkeley

VICE CHAIR

Nick Shephard

Dow Chemical Company

SECRETARY

Aaron Forster

National Institute of Standards and Technology

TREASURER

Chris Campbell

3M Company

IMMEDIATE PAST PRESIDENT

Al Crosby

University of Massachusetts Amherst

MEMBERS AT LARGE

Sarah Fischer

Fraunhofer IZFP

Marleen Kamperman

University of Groningen

Rong Long

University of Colorado Boulder

EDITOR

Michelle Seitz

BIOADHESION DIVISION CHAIR

Mehdi Vahdati

CNRS Institu Charles Sadron

STRUCTURAL ADHESIVES DIVISION CHAIR

Joseph Dennis – DEVCOM Army

Research Laboratory

SOFT ADHESIVES DIVISION CHAIR

Kate Jensen

Williams College

THE ADHESION SOCIETY INC.

510 King Street, Suite 418

Alexandria, VA 22314

Phone: (301) 986-9700, x1106

Fax: (301) 986-9795

Email: adhesionsociety@ascouncil.org

Queries can be sent to Malinda Armstrong, the Adhesion Society Home Office Manager at adhesionsociety@ascouncil.org.



continued from previous page...

in terms of finances and bylaws). Michelle Seitz has taken over as Editor and is keeping our Social Media presence alive. Follow us on Twitter (@adhesion_the) and LinkedIn. Please tag the Society if you post something relating to adhesion so that we can help advertise recent advances in adhesion science & engineering.

I also want to thank the Honorifics Committee and the Short Course Committee for their dedication, service and outstanding work that reflects the vision and mission of the Society. Please let us know if you would like to get involved with the short course.

Finally, I hope that each of you are having a fulfilling year. I wish you all the best in the closing months of 2022 and look forward to seeing you at the Adhesion Society meeting in 2023.

Joelle Frechette

President, Adhesion Society

Professor Chemical and Biomolecular Engineering University of California, Berkeley

3M Award for Excellence in Adhesion Science Presented to Dr. Michael Thouless

It is our great pleasure to announce Dr. Michael Thouless as the 2023 recipient of the Award for Excellence in Adhesion Science sponsored by 3M. Dr.Thouless currently holds the Arthur F.Thurnau Professorship and the Janine Johnson Weins Professorship in the departments of Mechanical Engineering and Materials Science and Engineering at the University of Michigan. He is being recognized for his exceptional and deep contributions elucidating the mechanics of adhesion that have gone on to have a large and lasting impact on the field.

Michael has worked in the arena of adhesion mechanics over a career that has spanned both industrial research and academic positions. His work stands out for its depth of insight, clear and yet powerful ideas, and utility as his contributions have been applied in engineering practice. He has become one of the leaders in cohesive zone modeling, where his ideas have had a large impact on other researchers in the field and seen application of adhesive bonding in the industrial field. In fact, his research and contributions

Dr. Michael Thouless

Photo credit CoF U. Mich

have had a major influence in the design and testing of adhesively bonded parts for numerous industries including the automotive industry.

Dr.Thouless has also made seminal contributions to the study of adhesion, fracture, and plasticity of thin films and layered materials, broadly applying this science to the macroscopic world of boilers and airplanes to the microscopic world of microprocessors and biological cells. In this regard, his work has made a lasting impact, both in terms of our fundamental understanding of fracture and plasticity, and in expanding the reach of materials research into industrial applications.

Michael obtained his Ph.D. from the University of California, Berkeley and his Sc.D. from the University of Cambridge. He worked as a Research Staff Member at IBM Research Division prior to joining the University of Michigan. Michael has also held visiting positions at Tsinghua University, Ford Research Laboratories, Cambridge University, and the Danish Technical University over his academic career. Dr. Michael Thouless's scientific contributions, legacy impact, and dedication to his field is truly remarkable and he is extremely deserving of the 2023 Award for Excellence in Adhesion Science.



Jason Clapper, Chair, Award for Excellence in Adhesion Science Committee (3M)

Award for Excellence in Adhesion Science Committee Chair

Jason Clapper, 3M

Jason Clapper is a Staff Scientist in the Corporate Research Materials Laboratory of 3M where he has spent much of his career working on the development of new technology in areas of soft materials and adhesives.

Nominations for the next Award for Excellence in Adhesion Science will be accepted through December 31, 2022. Nomination packages should be submitted to Jason Clapper, 3M, jclapper2@mmm.com

Nomination requirements: https://www.adhesionsociety.org/awards/award-for-excellence/



From the 2023 Program Chairs

Next year's meeting will be held February 19 to February 22, 2023 in Orlando, FL. The meeting will include sessions from our three Divisions: Structural Adhesives, Soft Adhesives and Bioadhesion.

Sessions will cover a wide range of adhesion science including:

Structural Adhesives

- Fracture Mechanics of Structural Adhesives and Composites
- Ice, Insects, Marine, and other Contaminants
- Formulation, Processing and Surface Preparation for Adhesion
- Adhesion and Fracture Under Extreme Conditions

Soft Adhesives

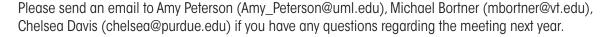
- PSAs and Viscoelasticity
- Gels, Elastomers, and Hybrids
- Soft Tribology
- Contact Mechanics
- Elasticity, Capillarity, and Wetting
- Soft Fracture
- Dynamic Systems
- Reversible, Smart, or Switchable Adhesives
- Soft Technologies
- Granular Adhesion and Contact

Bioadhesion

- Organismal Adhesion
- Underwater Adhesion and Testing
- Biomedical Adhesives
- Cell/Virus Adhesion and Mechanobiology
- Bioadhesion and Sustainability
- Complex Coacervates

Joint Sessions

- Novel Tools and Methods for Characterization
- Novel Chemistries and Processing for a Circular
- Novel Computational Methods for Adhesion
- Sustainability and Adhesion
- Active Matter
- Addressing Adhesion and Fracture in Additive Manufacturina
- Interfacial Properties
- Adhesives in Transportation





Michael Bortner, 2023 Program co-Chair (Virginia Polytechnic Institute and State University)

2023 Program Chair

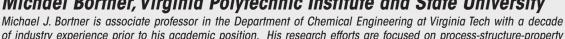
Amy Peterson, University of Massachusetts, Lowell

Amy Peterson is an Associate Professor of Plastics Engineering at University of Massachusetts Lowell. Her research group studies processing-structure-property relationships in polymers and polymer composites, with a focus on interfacial phenomena in multilayered systems.

2023 Program Co-Chair

Michael Bortner, Virginia Polytechnic Institute and State University

of industry experience prior to his academic position. His research efforts are focused on process-structure-property relationships in polymer and composite materials for advanced manufacturing.



2023 Program Co-Chair

Chelsea Davis, Purdue University

Chelsea Davis is an Assistant Professor of Materials Engineering at Purdue University. Her research group focuses on the development of micromechanical characterization tools to investigate the interfacial and surface properties of soft materials. She obtained an M.S. and Ph.D. in Polymer Science and Engineering from the University of Massachusetts Amherst in 2007 and 2012, respectively. Dr. Davis was a Michelin Postdoctoral Research Fellow at the ESPCI in Paris (2012-2013) and then an National Research Council Postdoctoral Fellow in the Polymers and Complex Fluids Group at the National Institute of Standards and Technology (2013-2016).



Chelsea Davis, 2023 Program co-Chair (Purdue University)





Bioadhesion Division

The Bioadhesion Division's 2022 meeting focused on Organismal, Bio-Inspired, and Biomedical adhesion, as well as Cell/Virus Adhesion, Underwater Adhesion and Testing, and Sustainability. After the virtual meeting in 2021, the Division was happy to come together in person for a fruitful meeting. Despite the ongoing pandemic, the meeting was well attended, bringing together academic and industrial participants from around the world. The keynote



Mehdi Vahdati, Chair, (University of Strasbourg)

contributions by Dr. Paul Chazovachii (PPG Industries), Prof. Anand Jagota (Lehigh University), and Dr. Daniel King (Hokkaido University), as well as the plenary talk by Prof. Brooke Flammang (New Jersey Institute of Technology) were greatly appreciated by the participants.

During the business meeting, the Division warmly thanked the previous Division chair, Dr. Jayant Joshi (Hollister Incorporated), for his excellent leadership and organization, as well as all the Division members and the session chairs for their hard work and their substantial input towards organizing a smooth meeting. We then welcomed Dr. Mehdi Vahdati (University of Strasbourg) and Dr. Chirstopher So (Navy Research Laboratory) as the 2023 Division chair and vice-chair, respectively.

The 2023 meeting will continue to capture the rich intersection between adhesion science and biological systems, including bioinspired approaches. As the previous years, the well-researched topics of the Division including organismal adhesion, bioinspired/biomimetic adhesives, biomedical adhesives, and tissue, cell, virus and/or biomolecular adhesion are envisaged to receive numerous contributions. The Division equally seeks to address new challenges and topics in the characterization of bioadhesion, sustainability, and complex coacervate-based (bio)materials (New Session). If you would like to be a part of this Division or to help organize future meetings, please reach out to us at mehdi.vahdati@icscnrs.unistra.fr and christopher.so@nrl.navy.mil. We look forward to seeing everyone in Orlando in 2023 for another fruitful meeting.

Chair - Bioadhesion Division

Mehdi Vahdati, University of Strasbourg

Mehdi Vahdati is an assistant professor of physics and engineering at the Physics and Engineering Department of the University of Strasbourg in France. His research lab is based in Charles Sadron Institute (CNRS) in Strasbourg. Mehdi's background is in polymer engineering and soft matter mechanics, especially underwater adhesion. His current research is focused on structure-properties relationships of sustainable, soft, and sticky materials.

Structural Adhesives Division

The Structural Adhesives Division had a well-attended, annual meeting in 2022 with a diverse participation from academia, national labs, and industry. The Division hosted four independent focus sessions: Fracture Mechanics of Structural Adhesives; Adhesion and Fracture in Extreme Dynamic Conditions; Challenges in 3D Printed Adhesives; and Ice, Insects, Marine, and other Contamination. In addition, the Division also co-hosted three joint sessions with the Soft Adhesives Division: Novel tools and methods for Characterization; Interfacial Properties; and Reversible, Smart or Switchable Adhesives. Overall, the sessions garnered a total of 62 talks and



Joseph Dennis, Chair (Army Research Lab)

3 keynote presentations, with most sessions hosting 40-50 attendees regularly! The Division thanks its previous Chair, Ajay Krishnamurthy (Eaton Corporation) for his excellent leadership and mentorship, and an applause to the Session Chairs who kept the concurrent sessions well aligned. We would also like to thank our attendees and our volunteers for their hard work, their engaging presence, and the constant feedback to improve the Structural Adhesives Division.

At our annual division meeting, we elected our new Vice-Chair, Ngon Tran (Army Research Lab) and Symposium Chair, Joann Hilman (BTG Labs), who are both enthusiastically helping with the planning and organization of the Annual meeting in 2023. Based on discussions during the Division meeting, we are continuing to strengthen our existing program portfolio and proposing focus topics that address sustainability of structural adhesives, while maintaining our core competencies in fracture, processing, and interfacial adhesion. We are excited to announce two confirmed keynote speakers; Dr. Jie Xu (Argonne National Labs) who will present their efforts in a self-driving lab for autonomous polymer discovery, and Dr. Douglas Smith (Baylor University) who will present on interfacial bonding in 3D printing of carbon fiber filled composites. Finally, don't forget to attend the Structural Adhesives Division meeting during the 2023 conference to voice your interests and shape our Division's future. We are look forward to another exciting Annual Meeting in 2023 and thank you all for your support during the 2022 meeting!

<u>Chair - Structural Adhesives Division</u> *Joseph Dennis, DEVCOM ARL Central*

Dr. Dennis is a polymer chemist stationed in Chicago as part of ARL Central within the US Army Research Laboratory. He is currently engaged with several universities in the Chicagoland area, focused on discovering and operationalizing adaptive polymer glasses for soldier, vehicle and weapon applications. His current role is actively collaborating with the external community and steering research focus through cooperative agreements to accelerate the discovery, innovation, and transition of technology to the Army.

Dr. Dennis' current research focus is in understanding and exploiting adaptive polymer networks. This relatively untapped area of material discovery presents challenging opportunities to understand the structure-property-response nexus and uncover rapidly-responding, adaptable materials for active armor, recyclable structural adhesives, robotics, and weapon technologies.



Soft Adhesives Division

We were thrilled to return to a fully in-person gathering for the 2022 Annual Meeting of the Adhesion Society. The Soft Adhesives Division was well-represented both in programming and in participation, and we had a full slate of exciting talks, a well-attended poster session, and lively discussions throughout. The Soft Adhesives Division program included longtime popular sessions on Gels, Elastomers, and Hybrids, PSAs and Viscoelasticity, and Elasticity, Capillarity, and Wetting, and soft Contact Mechanics. We also featured exciting



Katherine Jensen, Chair (Williams College)

applications and technology development with sessions on Reversible, Smart, or Switchable Adhesives and Soft Technologies, this year including both soft robotics and stimulus-responsive materials. A huge thanks to all who came together with both enthusiasm and care for each other's safety in the midst of an ongoing pandemic to make the 2022 Annual Meeting an unqualified success.

Our annual division meeting was also well-attended, where we discussed ideas and plans for the upcoming 2023 Annual Meeting and elected new leadership. Hyung-Joong Chung of the University of Alberta was elected to serve as the next Chair of the Soft Adhesives Division. Congratulations, Joong! He is serving this year as Vice-Chair.

In 2023, we will continue to host many of our traditional Soft Adhesives sessions, while also expanding into new areas of interest to the Society. We are particularly excited about a new session in Granular Adhesion and Contact, a new joint session in Active Matter, and evolving joint programming in Sustainability and Adhesion. We look forward to seeing you in Orlando!

Finally, we particularly want to thank and acknowledge Daniel R. King, who chaired the Soft Adhesives Division for the past two years and put together not only the excellent 2021 virtual meeting but also the fantastic in-person 2022 program for our division. Tragically, Dan passed away earlier this year, just a few months after the last Adhesion Society Meeting. He is deeply missed.

<u>Chair - Soft Adhesives Division</u> Katherine Jensen, Williams College

Katharine E. Jensen is an Assistant Professor of Physics at Williams College in Williamstown, MA. Her research group studies soft surface mechanics, particularly focusing in the areas of wetting and adhesion with soft polymer gels, fluid surface instabilities, and plant biophysics at airwater interfaces. Prior to joining the faculty at Williams, she earned a Ph.D. in Physics from Harvard University and then conducted postdoctoral research in the Department of Mechanical Engineering and Materials Science at Yale and the Department of Materials at ETH Zürich.

Secretary's Report on the 2022 Meeting

The Adhesion Society was back in San Diego! Attendance numbers were roughly 200 participants. The survey response rate remained around 50%. I would ask that we try to participate in the survey as members. Your responses really help the Executive Committee understand what is important to the members. The meeting was again heavily attended by academia (60%) this year. Industry and government (30%) formed the second largest segment. The reduction in non-academic attendees was not unexpected coming out of the pandemic. The diehards



Aaron Forster, Secretary (National Institute of Standards and Technology)

formed almost 50% of attendees in 2022, but the newcomers gave a strong push this year reaching almost 40%. Whether new or seasoned society veterans, the opportunity to network and visit with colleagues remained a top reason to attend. A close second is keeping up to date on the latest developments in adhesion science. Geographically, the meeting was dominated by attendees from the United States (80%) followed by Europe (12%), Canada (3%), and Asia (3%). The membership has indicated an improvement in the exhibitor experience. Hopefully, our international colleagues will join us in 2023.

Secretary

Aaron Forster, National Institute of Standards and Technology

Aaron Forster is a staff scientist in the Material Measurement Laboratory at NIST in Gaithersburg, MD. His research program investigates the role of molecular topology and viscoelasticity in the design of higher stronger and tougher protective materials. He develops measurement techniques to link molecular processes to meso-scale energy dissipation measurements. Protective materials of interest include high strength fibers, composites, and elastomers. Recently, his group has focused on democratizing measurements of the dynamic properties of materials via the distribution of material data frameworks that adhere to FAIR data principles.



From the Treasurer

The 2021-2022 fiscal year saw a triumph return to in-person with the 2022 Adhesion Society Meeting in San Diego, California. However, due to the lingering effects of COVID-19 and a West Coast conference site, the Society encountered an estimated deficit of over \$75K in the last fiscal year. The main contributor to this deficit was from the Annual Meeting, where we incurred \$184K in expenses compared to the \$137K in income for the meet-



Chris Campbell, Treasurer (3M)

ing. Food and beverage for the meeting was \$113K and is our largest expense for the meeting that we can control. As a result, we are targeting a food and beverage spend at break-even of \$58K, with a reduction to level of offerings that we have enjoyed at the past few meetings. There was also a decline in full-paying standard registrants this past year.

We will continue to set the costs of the conference based on a breakeven of 90% of our historical attendance for full paying attendees. This will continue us to provide access to the short course and conference for students and post-docs that covers their variable costs of attendance, while ensuring a reasonable cost of attendance for the other attendees for the conference. As a result of inflation at our conference sites, we will modestly increase the registration fees to maintain our breakeven target:

Registration Fees:

Standard Registration:	\$725
Standard Registration aftter January 15:	\$825
Standard Registration with Off-site Lodging:	\$900
Fellow Registration:	\$525
Retiree:	\$300
Student & Postdoc Registration:	\$350
Regular One-Day Registration:	\$350
Student One-Day Registration:	\$225
Guest Registration:	\$200

We appreciate the over \$15,000 in industrial donations that support the Society's awards, as well as sponsor student and post-doctoral attendance through the Peeble's Award and Diversity & Inclusion Scholarships. Please feel free to reach out if your company or organization would be interesting in sponsoring additional portions of the Society, as well as any questions you may have.

Treasurer

Chris Campbell, 3M

Chris Campbell is the Global Laboratory Leader for Optically Clear Adhesives in the Display Materials and Systems Division at 3M. He leads a team of product developers and application engineers for display bonding with pressure sensitive adhesives and liquid adhesives for consumer electronics and automotive applications. Chris and his family live in Burnsville, Minnesota with their two pugs, Buttercup and Rhubarb.

Short Course in 2023 Will Provide Both Familiar and New Content

The Adhesion Science and Technology Short Course offered by the Adhesion Society has long been a highly valued resource for practitioners in the adhesives field to gain basic understanding of the science of adhesion, practical guidance around adhesive formulation, characterization, and testing, and exposure to the essential ideas in the various classes of adhesives. As usual, the 2023 course will cover:

- Nature of surfaces and interfacial interactions
- Surface treatment effects
- Mechanical properties and formulation in adhesives including pressure sensitive, hot melt, and structural adhesives
- Stress distribution in adhesive joints and the various modes of adhesive failure
- Roles of strength and toughness in adhesion and toughening mechanisms
- Fracture mechanics concepts and testing methods
- · Practical adhesion test methods

It will also include some updates in areas of growing interest including sustainable adhesives.

The course will be offered on Friday and Saturday, February 17-18, 2023 just prior to the opening of the 2023 Annual Meeting of the Adhesion Society.

Dave Yarusso, Yarusso Consulting, Short Course Chair **Kevin Turner**, University of Pennsylvania Short Course vice-Chair





2022 Peebles Awards Sponsored by Henkel Corporation

This year we had seven recipients of the Peebles Award for Graduate Student Research in Adhesion Science, sponsored by Henkel. The selection of awardees was based on abstracts submitted as contributions to the Annual Meeting. These awardees received partial support to attend the meeting and present their papers at an oral symposium. These presentations formed the basis for choosing the winner of the Alan Gent Distinguished Student Paper Award. In addition to this support, registration fees for the short course and the meeting were waived. Congratulations to the receipients of the Peebles Award: Naomi Deneke (Purdue University), Hongbo Fu (University of Massachusetts, Amherst), Chris Jackson (Virginia Tech), Nityanshu Kumar (University of Akron), Zhenwei Ma (McGill University), Manar Samri (Leibniz Institute for New Materials), and Mo-Beom Yi (Seoul National University). Link to guidelines: http:// www.adhesionsociety.org/student-awards



President Al Crosby (left) and Eric Silverberg (right) with 2022 Peebles Award winners from left to right: Mo-Beom Yi (Seoul National University), Naomi Deneke (Purdue University), Zhenwei Ma (McGill University), Chris Jackson (Virginia Tech), Manar Samri (Leibniz Institute for New Materials), Nityanshu Kumar (University of Akron), and Hongbo Fu (University of Massachusetts, Amherst).

Alan Gent Distinguished Student Paper Award Sponsored by Henkel Corporation

Congratulations to Chris Jackson (Virginia Tech) for winning the 2022 Alan Gent Distinguished Paper Award presented at the Adhesion Society Meeting in February of this year. Zhenwei Ma (McGill University) won the runner-up prize. Chris is a student in the Civil and Environmental Engineering Dept and his paper was titled "Using Digital Image Correlation and Finite Element Analysis to Characterize the Mixed-Mode Fracture Envelope for a Tough Adhesive." Zhenwei is in Prof. Jianyu Li's group and his presentation was on "Spatiotemporal Control of Tough Bioadhesion with Ultrasound." Both were awarded a cash prize each in addition to the remuneration associated with being a Peebles Award winner. The winner's prize included a \$1000 cash prize and a plaque, recognizing the winner. The runner up received a \$500 cash prize and a plaque.



President Al Crosby (left) and Eric Silverberg (right) with 2022 Alan Gent Distinguished Paper Award runner-up Zhenwi Ma (McGill Univeristy) and winner Chris Jackson (Virginia Tech).

About the Student Awards: Two student awards are given every year, the Peebles Award for Graduate Student Research in Adhesion Science and the Alan Gent Distinguished Student Paper Award. Both awards are sponsored by Henkel Corporation. Any student who is past their first year of graduate study, will be enrolled in graduate school at the time of the Annual Meeting, and has not received a student award previously is eligible to compete. The deadline for submitting the long abstracts and the remainder of the application package for Peebles candidates is significantly earlier than the standard deadline. The Alan Gent Distinguished Student Paper Award winner is selected from the Peebles winners based on their presentations by a judging committee which typically includes the Vice President, Eric Silverberg from Henkel, and other members.

Link to guidelines: http://www.adhesionsociety.org/student-awards

2022 Best Poster Award

This award is presented to the best poster and poster presentation as judged during the annual meeting poster session. This award is sponsored by Avery Dennison and typically has a member from this company as the session chair and part of the judging panel. *Link to guidelines:* http://www.adhesionsociety.org/best-poster-award



2022 Best Poster award winners with Alex Nyarko of Avery Dennison (left) and President Al Crosby (right) with 2022 Best Poster award winners Elayne Thomas (University of Massachussetts, Amherst), Lidya Gebremeskel (University of California, Berkeley) and, not pictured, Junyong Park (Chung-ang University).



Robert L. Patrick Fellow of the Adhesion Society

Elevation of a member to Fellow of the Society is a formal recognition of outstanding members. The award also commemorates the lifelong contributions made to the Adhesion community by the late Robert L. Patrick in recognition of his extensive contributions to wetting, adhesion science, and the Society. The nominee must have provided outstanding contributions to the field of adhesion over a sustained period. Such contributions can be in the form of service to the adhesion community, broad and productive research and/or teaching, or other conspicuous achievements in the field of adhesion. Nominees shall have been members of the Adhesion Society for five years at the time of nomination. *Guidelines for nominations can be found at* https://www.adhesionsociety.org/robert-l-patrick-fellowship. Any member of the Society may submit a nomination to the President by October 30th and are encouraged to do so.

Robert L. Patrick Fellows Inducted in 2022

Anand Jagota, Leigh University Albert Everaerts, 3M Leonardo López, Dow



2022 Robert L Patrick Fellows Anand Jagota (left) and Leonardo López (center) with President Al Crosby.



46TH ANNUAL MEETING The Adhesion Society

FEBRUARY 19-22, 2023

OMNI ORLANDO RESORT AT CHAMPIONSGATE • ORLANDO, FLORIDA



JOIN YOUR PEERS IN ORLANDO FLORIDA!

Annual Meeting (Technical Program) – February 19-22, 2023

The 46th Annual Meeting is a four day event featuring a strong technical program of education sessions PLUS a two-day short course, poster session, exhibition, student award symposium and concurrent technical sessions. Our goal is to welcome 200 global adhesion professionals.

Exhibition – February 19-21, 2023

The vendor exhibition is integrated with the president's reception, coffee breaks and poster session, providing high visibility for the entire meeting to all attendees. The exhibition is designed to help establish and strengthen ties between all attendees and exhibitors.

Adhesion Science & Technology Short Course – February 17-18, 2023

This two day event provides an introduction and overview to a variety of critically important topics in the field of adhesion. Each subject is presented by a scientist who is a world leader in that area. This gives the attendees the opportunity to learn from and interact with scientists whose expertise provides a unique view into the history, science and relevance of their topic. For additional information and to register, visit www.adhesionsociety.org under events.

Presentations (Abstracts) for the meeting are solicited for all areas of adhesion science and technology.

For questions contact: Malinda Armstrong, Home Office Manager (301) 986-9700 x1106 or adhesionsociety@ascouncil.org

Hotel Accommodations:

Omni Orlando Resort at Championsgate 1500 Masters Boulevard ChampionsGate, Florida 33896 Phone: (407) 390-6664

Register today and save!

Registration for the Annual Meeting includes attendance at the technical meeting, all receptions and breaks, meeting proceedings and membership to the Adhesion Society









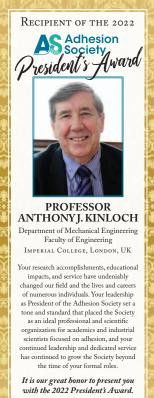




2022 President's Award **Winner Anthony Kinloch**

The President's Award is one of the highest honors bestowed by the Society and is reserved for recognizing adhesion scientists and engineers that have had an extraordinary impact on the field of adhesion science and engineering, the Society, and the broader community. It was awarded to Anthony Kinloch at the 2022 Meeting during a luncheon celebrating his contributions. It has been awarded only once before when in 1997 it recognized Alan Gent on the occasion of his 70th birthday "for pioneering research on the mechanical behavior of adhesive systems."





2022 President's Award winner Anthony Kinloch (center) with Bamber Blackman (left) who gave a presentation in Tony's honor with President Al Crosby (right).

Early Career Award

Congratulations to Jonathan Pham for winning the 2023 Adhesion Society Early Career Scientist Award, sponsored by the ASC, for his contributions to adhesion science through novel measurements that exploit the unique balance between surface forces and ultrasoft materials at small size scales.



This award recognizes an

early career scientist who has contributed in an outstanding, innovative, and interdisciplinary way to the progress of the field of adhesion science research and/or technology. The award is sponsored by the Adhesive and Sealant Council. This award is typically coordinated by two of the previous past Presidents of the Society and voted on by the Executive Committee. A part of the Society's DEI efforts, the eligibility criteria for this award are being updated. **Guidelines** for nominations and updated criteria can be found at: https://www.adhesion-society.org/early-career-award

Women's Networking Event



The 8th Annual Women's Networking Event was held on Tuesday February 22, 2022 organized by Amy Peterson (University of Massachusetts, Lowell). Attendees represented all sectors of the Society's membership, and the informal networking was even more appreciated after last year's virtual event.

Annual 5K



Keeping with tradition, these early birds participated in the beloved annual 5K. Great job!

Adhesion Connection ... an update from the society

510 King Street, Suite 418 • Alexandria, VA 22314

Email: adhesionsociety@ascouncil.org

Phone: (301) 986-9700, x1106 • Fax: (301) 986-9795

