RADTECH

THE ASSOCIATION FOR UV&EB TECHNOLOGY

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Annual Update 2020 - 2021

Eileen Weber
President RadTech
The Association for UV+EB Technology

Message from the President

"These are truly "unique times," and as our families, communities and workplaces adapt, at RadTech we understand that our most important asset is you, our RadTech member. It was both gratifying and a little unnerving to host so many of you earlier this year in Orlando for our 2020 conference at a time when we were just at the cusp of recognizing the impact and extent of the Coronavirus. The amazing participation and commitment to RadTech at the event was a testament to the importance of our technology.

And now, we find ourselves in a very different world.

However, with the important work of our members, the development and future opportunities for UV+EB remain favorable. In this report, I thought it important to review some of our activities, introduce a few of our support team, and assure you that despite the times, RadTech is active with new initiatives, a newly emerging committee, and even new hires—all dedicated to supporting members and ensuring the continued advancement of our technology. UV+EB seems well positioned to continue our long term positive trajectory, and we are grateful for your continued membership and support."

Educating **Regulators**

Rita Loof

Rita Loof (rita@radtech.org) is our West Coast regulatory director. By educating the influential SCAQMD and other California regulators on UV+EB, Rita has helped pave the way for implementation of our technology. She is currently working on updating federal and state language on UV+EB from the 1970s (a lot has changed since then), to ensure our technology is correctly represented by regulators.

Senator Mike Morrell (R), CA 23rd Senate District with Rita Loof, RadTech

CALIFORNIA SENATE

RESOLUTION

Members Resolution No. 397
By the Honorable Mike Morrell, 23rd Senatorial District;
Relative to Commending

RadTech International

WHEREAS, The relationship between a community and its trade associations is a vital and interdependent one, deriving its strength from the civic involvement and dedication of those who engage with such organizations, the many positive outcomes these entities make possible, and the spirit of cooperation and respect they foster within the community; and

WHEREAS, One such laudable trade association is RadTech International, and it is appropriate at this time to highlight its many achievements and underscore the positive impact it has made in the State of California and throughout the nation; and

WHEREAS, Representing more than 500 members worldwide involved in a myriad of markets ranging from 3D Printing/Additive manufacturing to food packaging to building materials to electronics to solar panels to finger nail polish, RadTech International is the trade association for the Ultraviolet (UV)/Electron Beam (EB) industry; and

WHEREAS, Over the years, RadTech International has remained steadfast in its mission to promote the use and development of UV and EB processing as an industrial technique offering energy savings, elimination of pollution, greater productivity, higher yields, and the opportunity for improved, new, and unique products; to serve as an international forum and reliable source of education and information for individuals and organizations involved in the use of UV and EB processing and who supply equipment, chemicals, or other materials to such users; and to develop and disseminate procedures and data on safe equipment operation and materials handling, testing, and quality control; and

WHEREAS, RadTech International recognizes that unlike conventional inks and coatings, UV/EB products do not evaporate and are instead specifically formulated to react to UV light or a beam of electrons, a process in which virtually no volatile organic compounds are generated, and as UV/EB processes are electric they do not produce combustion contaminants such as greenhouse gases; and

WHEREAS, Striving to offer incentives for member companies to keep their operations in the United States, RadTech International is responsible for helping create jobs and strengthen the economy in addition to working with regulators to provide flexibility for businesses that reduce their emissions above and beyond regulatory requirements; and

WHEREAS, The contributions RadTech International has made to the State of California and beyond are invaluable and reflect an organization devoted to the highest ideals of community service; now, therefore, be it

RESOLVED BY SENATOR MIKE MORRELL, That RadTech International be commended for its outstanding commitment to improving the environment and economy through its programs and extended sincere best wishes for success in the future.

Dated this 20th day of May, 2019.

Mike Morrell

Honorable Mike Morrell
23rd Senatorial District

UV+EB, Sustainability and the Circular Economy

Mark Tibbetts

Mark Tibbetts joined RadTech in June to assist the RadTech Sustainability committee. Mark will support our efforts to collect data, document, and collaborate with other organizations. This aids our work to help appropriately position UV+EB as an environmentally responsible technology. Current efforts include exploring the development of data on recyclability and composability, scoping out a potential Life Cycle Analysis, and an assessment of energy savings of UB+EB, which could yield CO2 credits for our customers. We are also exploring research on the safety of UV+EB products. Please join our efforts, contact Mark at: **mark.tibbetts@markrtibbetts.com**

"Mark Tibbetts has 15 plus years' experience in association management, environmental policy, and program development. Current clients include the National Electrical Manufacturers Association (NEMA), for which Mark manages a mercury-added lamp recycling program on behalf of its members. His prior experience includes serving as President of the Tag and Label Manufacturers Institute (TLMI) and leading the Thermostat Recycling Corporation (TRC), one of three national product stewardship organizations operating in the United States. During his tenure, Mark implemented state-mandated programs and achieved record collections of waste thermostats."

REGULATORY SUPPORT, RadTech EHS Committee

Marcy Gainey

Marcy Gainey, from TechCheck, LLC provides support to the RadTech EHS Committee delivering regulatory updates on a range of topics that may affect RadTech members. Her expertise is primarily around TSCA and other chemical control regulations as well as Hazard Communication/GHS, and Food Contact compliance. Marcy is readily available to members to answer/advise on regulatory matters. In addition, she graciously offered free support/guidance to members as they developed new commercial activities to support efforts to address PPE and hand sanitizer shortages that occurred with the onset of COVID-19.

Marcy Gainey has been supporting the regulatory compliance strategies of companies for nearly 15 years. Her global regulatory expertise and strong business acumen affords companies a strategic vision to support the regulatory and compliance challenges that too often accompany new technologies. Marcy has a wealth of knowledge and experience with US Chemical Control Laws including the Toxic Substances Control Act (TSCA), the Food Safety Modernization Act (FSMA) and OSHA's Hazard Communication Standard. Marcy has a Ph.D. In chemistry which further allows for strong communication between technical experts and regulatory authorities.

We Hope You Receive Our Monthly EHSS UPDATES?

Doreen Monteleone, prepares our popular monthly Environmental Health, Safety and Sustainability (EHSS Updates) newsletter, to keep members up to date on the latest activities and trends impacting UV+EB. Has your company or an employee been recognized for sustainability accomplishments? Let us know! We would be proud to tell the world! Please contact contact Doreen for more information, and to be added to the list ***doreen@radtech.org***

Doreen Monteleone

Besides encouraging sustainable business practices, and helping to lead efforts with the Sustainable Green Printing Partnership, the Flexographic Technical Association (and RadTech), Doreen Monteleone is a Master Gardener and enjoys training her dog, Molly. Molly visits patients and as the hospital's Wellness Mascot provides images with public services announcements and words of encouragement. Since COVID-19, she's been making "virtual visits" at the hospital.

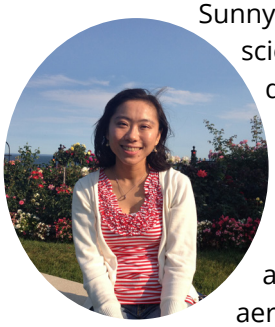
NEW YP Group

Sunny Ye of Facebook, a RadTech Board member, and Kejia Yang from Ares Materials are leading a new initiative to engage Young Professionals with RadTech. In a recent RadTech survey nearly 100 Young Professionals; and 100 potential UV+EB mentors, indicated interest in participating this new exciting effort.

Kejia Yang

Kejia Yang is a senior polymer scientist at Ares Materials, designing robust photopolymer formulations with superior optical transparency, low retardation, and tunable mechanical properties for applications in flexible displays, and foldable phones, as well as the R&D scale up. Kejia received her Ph.D. in Chemistry from University of Texas at Dallas in 2017, where her work was focused on polymer synthesis and formulation for bioelectronics and 3D printing. She also holds a Bachelor's degree in Materials Science and Engineering from Xiamen University in China, as well as a Master's in Chemistry from New York University.

Sunny Ye



Sunny Ye currently is working as a material scientist in Facebook Reality Lab to develop new materials for AR/VR applications. Prior to Facebook Reality Lab, she worked in 3M for seven years and focused on the development of UV/LED curing adhesives and coatings applied in industrial, automotive and aerospace. She obtained her Ph.D. from University of Colorado at Boulder Chemical Engineering Department with thesis research of the relationship of photopolymer performance, formulation and kinetics. Sunny has been passionate to volunteer her time in the RadTech community. She has been a RadTech member since 2008, has worked on the editorial board since 2013, and has served as a RadTech board member since 2017.

DID YOU Know?

*RadTech has partnered with **Ford Motor Company** to fund a research intern during the last three years to accelerate the development and understanding of UV/EB materials for the automotive industry. Lead by RadTech Board member Chris Seubert from Ford, Talented researchers from Eastern Michigan University's Polymers and Coatings Technology Program have worked on a variety of projects including **UV curable clearcoat durability** as well as the development of technologies to **accelerate the adoption of UV curable materials for additive manufacturing in the automotive industry.** Findings from these research projects have been presented at the SAE World Congress, Radtech 2020, Radtech 2.0, and will be published in a range of technical journals.*

Meet Our Current Intern:

Forough Zareanshahraki is a PhD candidate and graduate research assistant at Eastern Michigan University (EMU), majoring in polymers and coatings technology. Forough's research at EMU is mainly focused on radiation-curable environmentally-benign coatings. During her internship at Ford Motor Company, sponsored by RadTech, she has worked on **vat photopolymerization**-based additive manufacturing of automotive specimens. She is the recipient of RadTech best paper and emerging technology awards for her work on environmentally responsible **UV cured finger nail finishes**.

UV+EB Technology

***UV+EB Technology**, our flagship publication, now has over 10,000 print readers of the quarterly magazine—with eblasts and video overviews from our editor Dianna Brodine each month reaching more than 5,000 industry members and the magazine's digital edition receiving more than 12,000 page views per month. In the sixth year of publication, the magazine combines technical data from leaders in the UV/EB/LED fields with application concepts and columns designed to help users troubleshoot common questions. Our editorial board, comprised of 18 industry members from across a wide range of markets and applications has added several young members over the past year, bringing an exciting energy to the group and allowing the Editorial Board's industry veterans an opportunity to share their extensive knowledge with the next generation in the UV/EB industry. The magazine's website collates content from all published issues of UV+EB Technology, allowing constant access to the collection of articles, including frequent international visitors, averaging visits of more than 2,800 unique users each month, resulting in 3,670 average monthly visits and 5,300 page views. These numbers have climbed significantly in the twelve months.*

UV+EB Technology

Everybody Knows Mickey

#Members Only: Health & Safety Video Series

#MembersOnly: **Health & Safety Video series** featuring six modules including: Health Effects/Toxicity; PPE; Personal Hygiene and Housekeeping; SDSs and Other Safety Literature and Labels; Storage and Disposal; Safety/Precautions

#RadTech Strong: RadTech 2020

#RadTechStrong: RadTech 2020 was **co-located for the first time with IUVA** this past March, and despite the Corona Virus lurking, our biennial event drew over 1,000 attendees with over 100 presentations and 80 exhibitors.

#Zoom ZoomZoom: Webinar Library

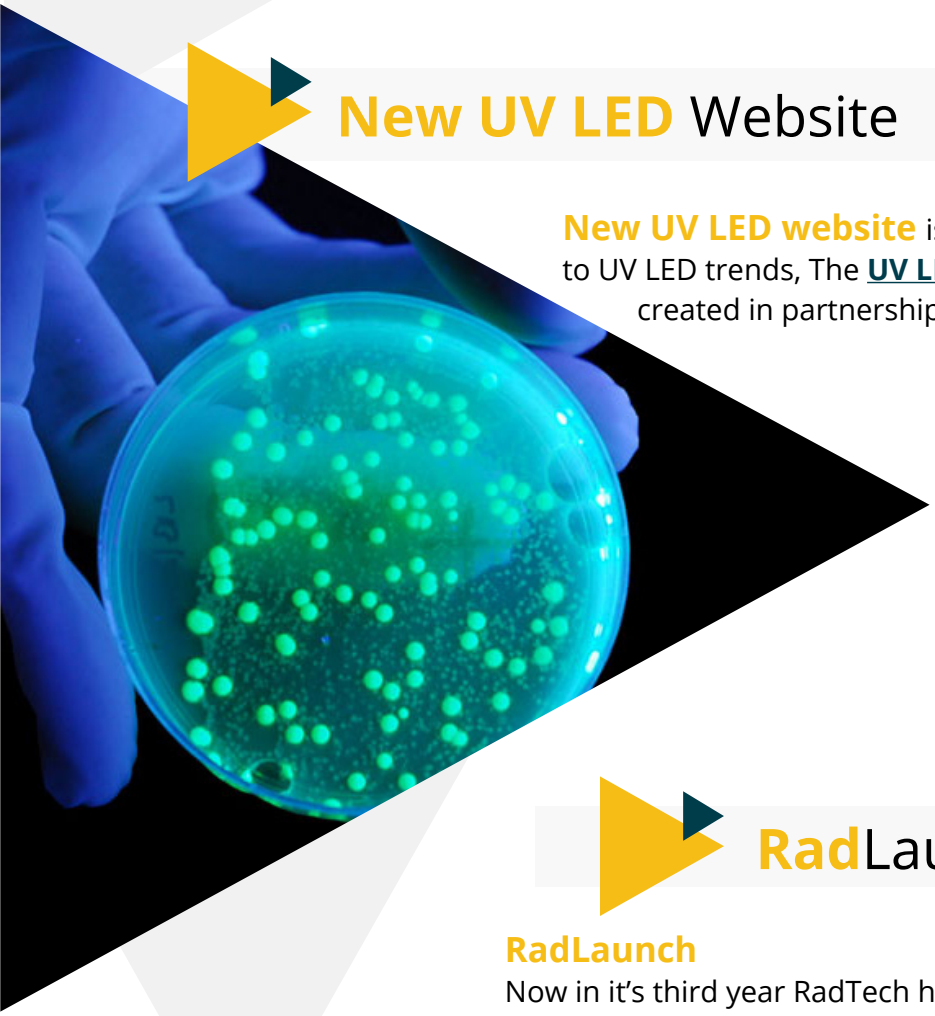
#ZoomZoomZoom: RadTech's popular webinar library continues to grow, with the addition of our **RadTech 2020 2.0 webinars** including Introduction to the Basics of UV/EB Curing; North American Market Overview + COVID-19 Update; Attainable Sustainable: Using Electron Beam Technology in Compostable Flexible Packaging; Effects of Structure and Composition on Mechanical Properties of UV Systems; High-Performance UV Curable Resin for Automotive Coatings; Photoinitiator selection to advance the UV curing industry in an uncertain world; Food packaging compliant inks and set-off migration; Effect of post-curing process on the performance of automotive 3D-printed specimens; Enabling energy curable adhesion through polymer design. Look for more webinars beginning this Fall!

Photopolymer Additive Manufacturing

Photopolymer Additive Manufacturing

The National Institute of Standards and Technology (NIST) and RadTech partnered to organize: **Photopolymer Additive Manufacturing Workshop: Roadmapping a Future for Stereolithography, Inkjet, and Beyond**, October 29-30, 2019 at NIST in Boulder, Colorado. Follow-up activities are now underway to develop a Roadmap and activities to support the growth of additive manufacturing.

New UV LED Website



New UV LED website is devoted exclusively to UV LED trends, The **UV LED Source** was created in partnership with the IUVA.

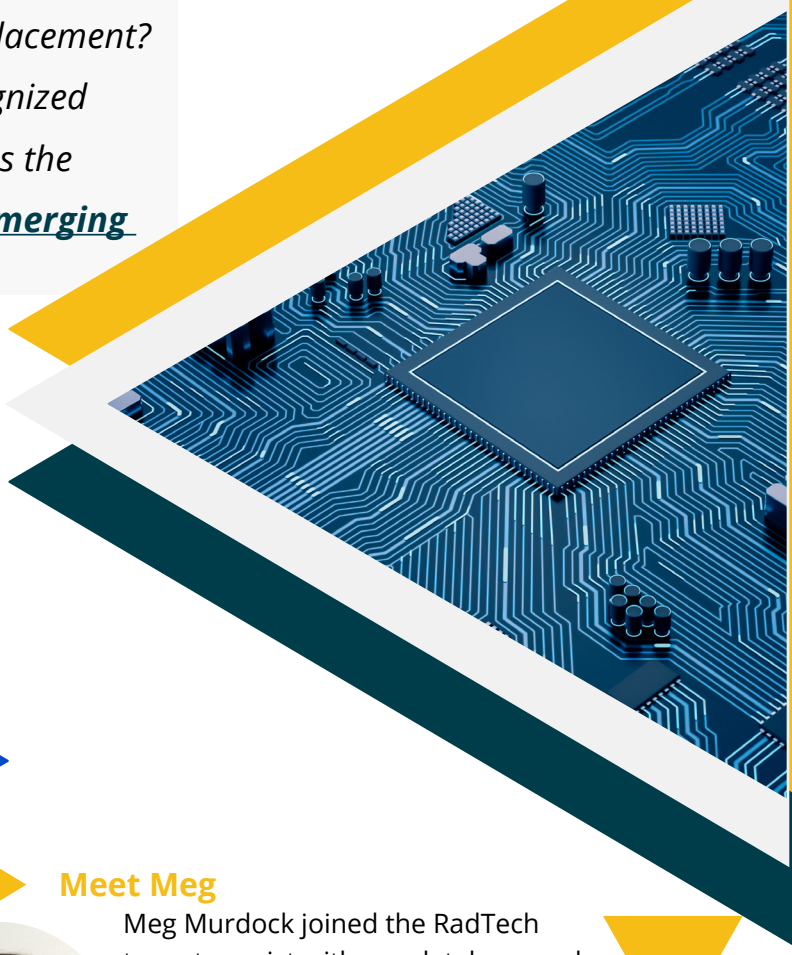
RadLaunch

RadLaunch

Now in it's third year RadTech had recognized over 20 innovative start-ups developing new materials, unique products, and innovative processes using UV+EB technology. **Learn more about RadLaunch and our winners**

Emerging Technology

What technology *can claim common ties between PepsiCo food packaging, cataract surgery, state-of-the-art computer chips, and tooth replacement? UV+EB can, with these technologies recognized at the RadTech 2020 Awards dinner. Miss the dinner?* ***Learn more about our latest Emerging technology award winners****.*



Meet Meg

Meg Murdock joined the RadTech team to assist with our database and accounting activities. Meg works with James Kerich, our CPA and has an accounting degree from American University with previous positions as Senior Accountant and a Director of Finance. She has also rescued three greyhounds over the years. She is detail oriented and happy to assist with any database and financial questions. **meg_murdock@kerich.net**

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Please contact RadTech if we may ever be of assistance!

Gary Cohen, Executive Director - gary@radtech.org **Mickey Fortune, Senior Director - mickey@radtech.org**