

RadTech Report 2007

A Year in Review

The following is a list of articles that appeared in the *RadTech Report* in 2007. These articles provide valuable information and data for the UV&EB industry. For a copy of a specific issue, contact RadTech at (240) 497-1242 or visit RadTech's Web site at www.radtech.org to download a specific article.

January/February 2007—Buyer's Guide

- UV&EB Industry Buyer's Guide
- Pilot Lines & Toll Coaters

March/April 2007—Printing & Packaging

- The Changing Economics of EB Curing
—By *Mikhail Laksin and Joshua Epstein*
- UV Lamp Configuration Effects on the Curing Properties of Coatings —By *Jacob Staples, Stephen Lapin and Simon Whittle*
- Electron Beam Gas and Aroma Barrier Technology
—By *Im Rangwalla*
- UV&EB Inks for Food Packaging Materials: Going the Extra Mile—By *Tom Dunn*
- Advancements in UV-Hybrid Inks—By *Don Duncan*
- Food Packaging Safety—By *Ronald Golden*

May/June 2007—University Issue

- UV-Curable Vinyl Functionalized Siloxane Colloids
—By *M.D. Soucek and J. He*
- Characterizing a Novel Low-Voltage Pulsed EB: Challenges in Dosimetry—By *K. Benjamin Richter, Alon V. McCormick, L.E. Scriven and Douglas E. Weiss*
- Acryloyl Morpholine for UV Curing—By *James A. Dougherty, Louise I. Lynch and Len Mahamoud*
- Effect of Water in Cationic Photopolymerizations: Reversible Inhibition—By *Ruiping Huang, Beth A. Ficek, Shedric O. Glover and Alec B. Scranton*
- IUCRC Completes its Seventh Year and Receives an ACS Award—By *Beth A. Ficek and Alec B. Scranton*

July/August 2007—Manufacturing & Architecture

- UV Coatings Enhance Decorative Metals
—By *Mike Christiansen*
- Qualifying, Defining and Implementing a Successful UV Project—By *Dan Sweetwood and Michael Kelly*
- VOC Test Method for Architectural Coatings—By *Rita Loof*
- Flame Retardant Radiation-Curable Coatings for Wood Application—By *H. Van den Bergen, M. Decaux, J.P. Bleus, G. Franzolin and T. Randoux*
- UV Powder Goes Green—By *Steve Couzens*
- Status of Radiation Curing in Asia—By *Zaman Khairul*
- Applications and Progress of UV-Cure Technology in China
—By *Wenfang Shi, Youkai Jin and Yangzhi Jin*
- UV&EB Market and Business Status in Japan
—By *Takashi Yamadera*
- UV&EB in North America—By *Gary Cohen*
- UV&EB in the Flooring Industry: Reducing Greenhouse Gas Emissions & HAPS—By *Jeffrey S. Ross*

September/October 2007—Electronics & Fiber Optics

- A Simple and Inexpensive Method to Measure Photopolymerization Shrinkage Stress—By *Peter D. Ganahl, Alec B. Scranton and Chris N. Coretsopoulos*
- UV&EB Opportunities in Printed Electronics: Summary Report—By *Graham Battersby*
- UV-Cure Temperature Maintains LightScribe Color Change Chemistry—By *Susan E. Bailey*
- Designing UV-Curable Materials for High-Temperature Optical Fiber Applications—By *Daniel A. Wilson, Matthew M. Ellison and Zhang Xiaoyan*
- UV Curing for Printed Electronics—By *Kim Eiroma, Liisa Hakola, Jukka Hast, Arto Maaninen and Jarno Petäjä*
- Optimization of UV Curing Multiple Elements by On-line Measurements—By *Rick Chamberlain, Paul Schmutge, Bob Stulpin, Harri Turunen and Tim Dougherty*
- A Novel Two-Photon Absorbing PAG and Its Application in 3-D Microfabrication—By *Kevin D. Belfield, Ciceron O. Yanez and Zhen-Li Huang*
- UV-Coatings Technology Delivers Best Economic Value Statement—By *Dan Sweetwood and Michael Kelly*

November/December 2007—Emerging Markets & Applications

- Oxime Sulfonate Chemistry for Advanced Microlithography
—By *Hitoshi Yamato, Toshikage Asakura, Yuichi Nishimae, Akira Matsumoto, Junichi Tanabe, Jean-Luc Birbaum, Peter Murer, Tobias Hintermann and Masaki Ohwa*
- Computational Analysis of the Photoinitiation Pathway of 2,2-Dimethoxy-2-Phenylacetone—By *Abby R. Moore and T. Brian Cavitt*
- Repair and Touch-Up of UV Wood Finishes—By *Randal Cain*
- The Next Generation of Optical Data Storage: Holography
—By *Lisa Dhar and Edwin Hortelano*
- Use of Modeling to Optimize UV Solutions and Understanding—By *Glen Thommes and Jeff Thommes*
- A Case Study: UV Processes and a Corporate-Wide Green Movement—By *Tom Pearsall and Chris Mirt*
- A New UV Polyurethane Dispersion for Outdoor Applications on Wood—By *Michel Tielemans, Jean-Pierre Bleus and Matteo Vasconi*
- Bright Spots on the Horizon: UV LED and Inkjet Graphics Printing—By *Dan Marx*
- Creative Effects for Glass Decoration—By *George Koch*