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Welcome to the Adhesive and Sealant Council's *ASC e-Catalyst*

ASC e-Catalyst delivers the latest ASC news, industry information and end-user trends—right to your Inbox. Look for it on the 1st Tuesday of each month.

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ASC e-Catalyst is a great resource for the industry! Help us continue to reach the design-engineering community by telling others about this great resource. Like you they'll benefit from the latest industry applications, technological developments, resources and educational opportunities. Sharing the knowledge is easy! CLICK ON the "Send to a Colleague" button on the right.

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ASC News

CALL FOR SPEAKERS: ASC takes you to Denver for the 2012 Spring Convention & EXPO

Share **YOUR knowledge** with the industry as a **SPEAKER**, put your company's expertise in front of the entire A&S industry and help make our industry a strong competitor in the global marketplace!

ASC invites you to submit a presentation proposal (abstract) for inclusion in the program for the 2012 Spring Adhesive & Sealant Convention in Denver, Colorado, April 15-17th, 2012

***Abstracts must be submitted online by Friday, January 27, 2012**

All timely subject matter and topics relevant to the adhesive and sealant industry will be considered. Listed below are just a few of the many topic areas of interest to the industry:

- Business Development/Market Trends – Brazil, China, energy sector emerging technologies
- Raw Material Development (Expert Analysis) – wax, SBR, SBC, Crude C4
- Electronics and Adhesives – end user needs, penetrating the market, outlook, landscape and market data
- Distributors in the Marketplace – their perspectives and needs from manufacturers
- Green Chemistry – initiatives in other industries, packaging success stories, shareholder impacts
- Government Relations – TSCA reform, nanotechnology regulatory environment, MDI and impact to consumer market
- End Users Focus – transportation, aviation, and medical/hygiene market needs

DOWNLOAD the prospectus for a complete list of topics and submission requirements.

SUBMIT a proposal online

For additional information please contact: Steve Duren (301) 986-9700 ext. 105. Email: Steve.Duren@ascouncil.org

2012 ASC Spring EXPO

December 2011

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Showcase your products and services to **BUYERS** and **DECISION MAKERS** in the Adhesive & Sealant Industry, Exhibit at the LARGEST Adhesive and Sealant event in North America. **DOWNLOAD** the Exhibitor Prospectus for complete information.

Convention Attendees:

CLICK for more information or to register for the 2012 Spring Convention & EXPO in Denver, Colorado April 15-17, 2012.

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Discover the Many Advantages of Waterborne Adhesives at ASC's WBA Short Course

The Waterborne Adhesives (WBA) Short Course, co-located at the 2012 Spring Convention in Denver, is an informative two-day seminar led by expert professionals in the field. The course is designed for technical and sales/marketing personnel employed by manufacturers, suppliers or end user companies. Basic chemistry background is assumed and NO advanced knowledge is required.

Waterborne adhesives are extremely versatile in their formulation and application functions, making them a logical choice for bonding many types of substrates. Some of the major advantages of waterborne adhesives are the absence of volatile organic compounds (VOCs) and the ease of clean up after application. The course will help you develop a strong knowledge of how waterborne adhesives can help serve your customers better and ultimately add to your bottom line.

Program Topics Include (tentative):

- Antioxidants/Stabilizers/Biocides
- Application Equipment
- End-Use Applications
- Epoxy Dispersions & Hardeners
- Formulating with Tackifier Dispersions
- Market Application & Application Overview
- Plasticizers
- Polychloroprene Dispersions
- Polyurethane-Acrylic Hybrids
- Polyurethane Dispersions
- Production Equipment
- Surfactant, Defoamers, Rheology Modifiers
- VA/VAE Emulsion Polymerization
- Waterborne Acrylic Polymers

Learn More or Register

For more information, contact Mark Collatz at (301) 986-9700 ext. 112 or by email at mark.collatz@ascouncil.org

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VOC Emissions vs. VOC Content

Volatile organic compound (VOC) emissions are present in higher levels indoors, rather than outdoors, because their sources primarily originate from indoor furnishings and construction materials. This means that limiting VOCs from indoor products is critical to reducing VOC exposure and improving indoor air quality (IAQ). Various ecolabels and IAQ certification programs require that products and materials?including adhesives and sealants?meet low chemical emission requirements. **READ MORE**

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Avery Dennison Opens Adhesives Research Center

Avery Dennison opened its new Adhesives Center of Excellence research center in Mill Hall, Pennsylvania, USA.

The 24,500-square foot facility expands the space currently devoted in Mill Hall to research and development of adhesives, one of the company's core technologies, and brings its adhesives researchers under one roof in state-of-the-art facilities.

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Upcoming Events

Composites 2012
ASC's A&S Pavilion
date: 2/21/12 – 2/23/12
location: Las Vegas, NE

**2012 ASC Spring
Convention**

'Our company was founded on an innovative use of adhesives, and we're dedicated to remaining the innovation leader in this space,' said Dave Edwards, vice president and chief technology officer for Avery Dennison. 'Bringing our full team together in Mill Hall will facilitate collaboration and cross-pollination, and enable us to work faster and smarter to meet the needs of our converter customers and end users for more specialized, higher-performance and more sustainable adhesives.'

Avery Dennison was founded in 1935 by R. Stanton Avery, who produced the first pressure-sensitive labels for retailers as a removable alternative to traditional glue-applied labels. Inventors at the company have since been granted more than 900 domestic and international patents for label materials and constructions, many of which involve adhesives. Among the company's inventions are water-resistant adhesives, repulpable adhesives that allow the recycling of paper that contains stickers, multi-layer adhesives that can be removed from surfaces without leaving any residue, and adhesives that allow labels to be easily washed away from the surface they cover.

'Our goal for the center is to create a new generation of products that offer new functionality and value to our customers and enable Avery Dennison to offer new applications while also being more sustainable,' said Don Nolan, group vice president, Label and Packaging Materials. 'For example, based on our leadership position in controlled architecture polymerization technology, we are commercializing new pressure-sensitive adhesives that can be used in structural applications and enable customers to simplify their design and manufacturing processes.'

In addition to serving as a corporate research center, Mill Hall will continue to serve as one of the company's main adhesives manufacturing centers.

SIDE NOTE...

Avery Dennison Corporation announced on November 30, 2011 the death of **Charles D. Miller, former Avery Dennison chairman and chief executive officer** from 1977 to 1998. "Chuck" Miller was instrumental in transforming the company from a U.S.-based manufacturer into a global Fortune 500 market leader in pressure-sensitive labeling materials and office products. [READ MORE](#)

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Join the A&S Industry at Composites 2012 – Deadline to exhibit is January 13, 2012

Want to reach thousands of decision makers in the Composites Market? Then join forces with the A&S industry at ASC's Pavilion at Composites 2012.

Adhesive and Sealant Pavilions are 800 to 2,000 square foot pavilions within larger, established trade show events that are focused on strong existing markets or emerging markets for adhesives and sealants.

The DEADLINE to be included in the A&S Pavilion at Composites 2012 is January 13, 2012

What's in it for my company?

- Better placement on the tradeshow floor
- Priority booth selection and pricing discounts
- Differentiate your company and the A&S industry against other fastening and sealing options at the show
- Pavilions help customers find A&S solutions more easily at larger shows
- A great way for your company to "test drive" a new show/market before committing substantial resources in the future

Composites 2012

February 21-23, 2012 in Las Vegas

- 3,000 domestic and international attendees representing Aerospace, Architectural, Automotive, Civil Structure, Construction, Corrosion, Energy, Kitchen & Bath, Marine, Mass Transportation, Military, Sports & Leisure, Truck/RV
- Growing industry segment that leverages adhesives and sealants
- Prominent placement on the floor to maximize exposure to prospects
- Discounted booth space
- 87% of attendees are DECISION MAKERS

DOWNLOAD the registration packet.

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date: 4/15/12 – 4/17/12
location: Denver, CO

WBA Short Course

at the ASC 2012 Spring Convention
date: 4/15/12 – 4/16/12
location: Denver, CO

Omnexus4Adhesives Webinar

date: 11/17/2011
time: 10:00 a.m. (ET)
topic: DMA in Practice: Fine-tune PSA formulations effectively

Omnexus4Adhesives Webinar

date: 11/22/2011
time: 10:00 a.m. (ET)
topic: Design of Experiments Made Easy

Omnexus4Adhesives Webinar

date: 12/6/2011
time: 10:00 a.m. (ET)
topic: Implementing Design of Experiments in Practice

Omnexus4Adhesives Webinar

date: 12/14/2011
time: 10:00 a.m. (ET)
topic: Sustainability in Automotive: Opportunities for Adhesive and Sealants

WAC

date: 9/18/12 – 9/21/12
location: Paris, France

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The Adhesive and Sealant Council (ASC) is a North American trade association dedicated to representing the adhesive and sealant industry. The Council is comprised of 114 adhesive and sealant manufacturers, raw material and equipment suppliers, distributors and industry consultants, representing more than 75% of the U.S. industry with operations around the world. Offering education, legislative advocacy, professional networking and business growth solutions for its members, the ASC is the center of knowledge and catalyst for industry growth on a global basis for manufacturers, suppliers and end users. For more information about ASC, visit www.ascouncil.org.

For More Information
Contact:
[The Adhesive and Sealant Council](#)

Upcoming e-Training Courses Available to the Adhesives & Sealants Industry from ASC!

ASC and its educational partner, **Omnexus4Adhesives**, offer several outstanding technical webinars. These convenient webinars are the PERFECT way to enhance your adhesive and sealant knowledge. Take advantage of these upcoming sessions...

December 14: **Sustainability in Automotive: Opportunities for Adhesive and Sealants**

Identify existing and future opportunities with sustainable adhesives & sealants for the automotive industry thanks to a structured review of latest developments and future trends for more sustainable vehicles.

February 8: **Adhesives for Solar Panels: Existing & Future Opportunities**

Explore the use of adhesives and sealants in photovoltaic panels and come away with a clear vision on the new business opportunities and the technical requirements that must be met in these new applications.

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World Adhesive & Sealant Conference (WAC 2012)

The WAC2012 will be held September 18-21, 2012 at the Marriott Paris Rive Gauche Hotel and Conference Center in Paris, France.

This global Adhesive & Sealant Conference takes place every four years alternating between Europe, USA and Asia. The World Adhesive Conference's official slogan is: "Creating the Future"

The objective is to address the key industry challenges, to provide multi-perspective solutions and to promote the dialogue between all the stakeholders and to strive for both development and progress of the global Adhesive & Sealant Industry.

Main topics include:

- Towards A Sustainable Future
- The Technology Revolution
- Secure Raw Material Sourcing
- Creating Value – Entrepreneurship...Design...Technology.

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Industry News

Royal Adhesives & Sealants Acquires Craig Adhesives & Coatings from Vertis Communications

Business Wire (11/30/11)

Royal Adhesives & Sealants will acquire substantially all of the assets of Vertis Communications' indirect wholly-owned subsidiary, Webcraft Chemicals, which operates under the name Craig Adhesives & Coatings. Based in Newark, New Jersey, Craig is a supplier of ultraviolet light cured and water based adhesives and coatings to the printing and graphic arts markets. "We are excited to add Craig's market-leading ultraviolet and water based adhesives and coatings products to our growing platform, and welcome Craig's employees and clients to the Royal family," said Ted Clark, CEO of Royal. "As a leading producer of high-performance adhesives, sealants and coatings, we look forward to working with the Craig team to advance our combined product portfolio and expand our presence in the packaging and graphic arts market."

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Dow Chemical Forms JV With Saudi Aramco

Wall Street Journal (11/28/11) Said, Summer

Dow Chemical has announced that it has officially formed its joint venture Sadara Chemical with state giant Saudi Arabian Oil, or Saudi Aramco, to build one of the world's largest chemicals plants in the kingdom's Eastern Province on the Persian Gulf coast. Saudi Aramco, the world's biggest oil company, and Dow Chemical in October signed a joint-venture shareholders' agreement to build the complex in Jubail. First production units are expected to come on line in the

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second half of 2015, while all units are expected to be up and running in 2016. Sadara will produce polyurethanes, propylene oxide, propylene glycol, elastomers, linear low-density polyethylene, low density polyethylene, glycol ethers and amines. The Sadara project represents Aramco's second major investment in a large-scale petrochemical complex in the kingdom, where it is already involved in a joint venture with Sumitomo Chemical at Rabigh on the Red Sea.

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3M Innovations Recognized as 'Best of What's New' by Popular Science Magazine

Business Wire (11/16/11)

In its annual survey, Popular Science magazine has named 3M Kind Removal Silicone Tape among its top 100 most innovative and high quality products. 3M Kind Removal Silicone Tape is a next generation medical tape that features a new proprietary silicone adhesive technology, providing an optimal balance between reliable adhesion and gentle, atraumatic removal. The tape can be repositioned and removed easily from patients' skin to minimize the likelihood of tape-related skin injury. The skin-friendly characteristics of 3M Kind Removal Silicone Tape are particularly important for patients with sensitive, compromised, or at-risk skin, or those who may require repeat taping. Launched in June 2011, 3M Kind Removal Silicone Tape is being used by clinicians across a number of patient populations and care settings. A recent evaluation program in select children's hospitals revealed that 90 percent of evaluating clinicians rated the performance of Kind Removal Silicone Tape as "better" or "much better" than their current gentle tape. Kind Removal Silicone Tape was developed by 3M to address identified clinician concerns related to skin damage from traditional adhesives. Adhesive technology is one of 3M's more than 40 core technology platforms.

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H.B. Fuller Adhesive Innovations Go Mobile

PRNewswire (11/03/11)

H.B. Fuller has launched a mobile web app featuring the company's latest packaging adhesive innovations in North America. "We're committed to sharing our adhesive knowledge with customers at their locations around the world, collaborating with them in our R&D laboratories, and now reaching out to them on their mobile devices," said Dennis Glock, H.B. Fuller global manager digital marketing communications. "The web app is a resource packaging professionals can access whenever they want more information about our specific packaging applications wherever they are working." The app is available for Apple, Android and BlackBerry devices.

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Nordson May Move Jobs Out of Amherst

Chronicle-Telegram (OH) (11/22/11)

Nordson has announced that it may move production of parts used in an adhesive dispensing system to a facility in Atlanta, which may mean the loss of about 30 jobs at its facility in Amherst, Ohio. The business in Amherst is growing, though, and this may offset the loss of jobs, according to communications director Jim Jaye. The company may also start producing itself some parts that it currently buys from other companies, which would also create more Amherst jobs.

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End-User Perspectives

Akron Area Inventors, Entrepreneurs Hope to Spark Interest, Attract Money

Akron Beacon Journal (OH) (10/24/11) Byard, Katie

Ohio's ADAP Nanotech recently exhibited its adhesives and coatings for potential investors, partners, and the general public at the Northeast Ohio Entrepreneur Expo. The company takes as its inspiration the gecko, whose footpads with microscopic hairs allow the lizard to climb and stick to walls. ADAP has created a new "thermal pad" adhesive that dissipates heat generated in electronics. The pad has microscopic carbon nanotubes that mimic the gecko's footpad hairs, and

when applied to a polymer surface it produces a strong adhesive that forms to surfaces without glue. The company is trying to raise funding to build a pilot plant in the Akron Global Business Accelerator to demonstrate that it can produce the pads in a cost-effective manner.

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HyperBranch Raises \$1M, Tests New Sealant for Brain, Spinal Surgeries

MedCity News (10/27/11) Vinluan, Frank

Durham, N.C.-based HyperBranch Medical Technology, a wound and surgical sealant manufacturer, has developed a new gel designed to act as a sealant for brain and spinal procedures. The gel is currently undergoing clinical testing to see if it works as well as a similar sealant from Covidien called DuraSeal. HyperBranch has raised over \$1 million in equity financing, in addition to \$2.1 million in fundraising less than a year ago. Last year, HyperBranch received a CE Mark in Europe for its Adherus Spinal Sealant, which is classified as a medical device for preventing cerebrospinal fluid (CSF) leakage during spinal surgery. The company has also received regulatory clearance in Europe for ocular and cranial sealants and a hernia mesh fixation product. Following the CE Mark for Adherus, HyperBranch started enrolling a clinical trial for the surgical sealant. In study details submitted to the National Institutes of Health, HyperBranch explains that it is studying Adherus in patients with a cerebrospinal fluid leak at the end of surgery even after stitching and other standard procedures have been attempted. HyperBranch's sealant is made from two components that create a gel when combined. The gel can be applied by a doctor after closing an incision. "The gel acts as a thin, elastic barrier intended to prevent CSF from leaking until the dura tissue has properly healed on its own," HyperBranch states in its findings. "The gel is then absorbed by the body over several months and excreted or removed from the body through the urine."

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