

Chicago Society *for* NEWS Coatings Technology

Member of Federation of Societies for Coatings Technology

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Monday, January 5th • Steven's Steak House

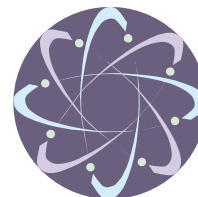
William D. Arendt, Arron M. Strepka & Kristy Riley - Velsicol Chemical Corp.

COALESCENT FORMULATION STUDIES: EFFICIENCY, PARTITION RATES and VOC

There is constant pressure to reduce total coating VOC by reducing the VOC of formulary components. Different approaches to reduction of coatings volatile components exist. To reduce VOC coalescents can be eliminated, reduced in level or replaced with less volatile coalescents/plasticizers. The focus of this paper is on a lower volatility coalescent, 2-ethylhexyl benzoate. The use of plasticizers (lower volatility than coalescents) will also be considered. The coalescent, 2-ethylhexyl benzoate (2EHB), is a low odor, less volatile coalescent. While it has been shown to be an efficient coalescent in paint formulations, variations in efficiency have been reported. The 2EHB is not soluble in water and partitions to the polymer in a paint to provide improved coalescence. Partitioning and partition rates were studied to determine effect on coalescent performance. In addition, a study on coalescent efficiency of 2EHB in paint versus 2,2,4-trimethyl, 1-3-pentanediol monoisobutyrate (TMB) was conducted. The evaluation focused on practical paint tests. The efficiency data developed indicated that 2EHB is more efficient than TMB in some paints. If less coalescent is used less VOC's are present. Guidelines on maximizing the efficiency of 2EHB as a coalescent are discussed.

William D. Arendt (Bill) is a Senior Staff Scientist with the Velsicol Chemical Corporation, a position in which he has held since 1996. Arendt is responsible for new products design and development, and technical service support. Arendt joined Velsicol 32 years ago and has held a number of technical positions with the company including director of plasticizer research and plasticizers product manager. For most of his tenure with Velsicol, Arendt has worked with benzoate plasticizers, and benzoate esters for other applications. Prior to Velsicol, Arendt worked for Desoto and formulated trade sales paints. Arendt has nine U. S. patents (one on a coalescent aid), three international patents, published numerous papers on plasticizer and other technologies and has made presentations to several different technical societies. Bill is a member of the CSCT. He is also an Honored Service member of the Society of Plastics Engineers, and is currently the Chicago Section's Councilor. He is a member of TAPPI and ASTM. Most recently, Arendt has been appointed to the advisory Board and the Board of Reviews of the Journal of Vinyl and Additive Technology (JVAT). Bill has a Bachelor of Science degree in the Chemistry Curriculum from the University of Illinois at Chicago Circle.

Arron Strepka is a Senior Chemist with Velsicol Chemical Corporation. Arron is currently responsible for product development and technical service. Arron's focus at Velsicol is with the benzoate plasticizers and benzoate esters for the coatings, adhesives, sealants, vinyl and other industries. Prior to Velsicol, Arron worked for Sherwin Williams Automotive Finishes as a Technical Service and Development Chemist. Arron is a member of the CSCT and currently cochairs the Technical Committee. Arron has a Bachelor of Science degree in the General Chemistry from Governors State University.



CSCT MEETINGS:

(Information 847.202.9028)

5:00 CASH BAR
5:45 SPEAKER
6:45 DINNER

*Steven's Steak House
476 N. York Rd., Elmhurst, IL*

Upcoming Events

December 5, 2003
CSCT/CPCA Joint Holiday Party
Oakbrook Marriott

January 5, 2004
Velsicol Chemical
Steven's Steak House

February 2, 2004
Lyondell Chemical
Steven's Steak House

February 12, 2004
SYMCO
Drury Lane



CSCT/CPCA Holiday Derby

Getting it Straight**Society Notes & Changes**

Get more information about CSCT news and events at

www.chicagocoatings.org

Please note:

New meeting times:

5:00 Social Hour
5:45 Speaker
6:45 Dinner

What were you doing 25 years ago? If you were a member of any Society for Coatings Technology 25 years ago and are now a member of the CSCT you may qualify for the CSCT 25 year club; however, we need to know who you are.

Call or write:

Evans Angelos

417 Naperville Road
Clarendon Hills, IL 60514
630-323-6474
evansangelos@comcast.net

The 2004 Symco Symposium

is scheduled for Thursday February 12
at Drury Lane, Oakbrook, Illinois.

Speakers are needed ASAP.

Please call Guy Lopez at (847)551-3201 or Russ Heinzinger at (630)231-7600 MD-Both INDS.

Chemists: The Charge for Admission is \$100.00 dollars.

Suppliers: Your fee will be \$ 200.00 for the tabletop display.

Note : More details will be coming out at a later date through the mail. In response to past symposiums, suppliers have requested for more traffic in and around our display area. Therefore the floor plan will be redesigned for this showcase. Now people, it is the time to plan your company's participation in this 2004 Symposium.

I am asking the Suppliers and the Distributors to help our Chemists come out. If you will take the time to ask/sponsor some Chemists, this will help both you and the CSCT make this event a great time for all.

Thanks.

Companies that are coming thus far (more to come) are as follows:

Mead Westvaco Corp. - Elementis Specialties

TH Hilson - The Chidley & Peto Co. - Eastman Chemical

VENDOR NEWS

Solvent problems? Need fast answers?

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Learn about Performance today .

N-Terpinal

has proven itself to be the safest and most aggressive chemistry for the removal of powder coatings and other coating systems.

Please visit WSI Industries' web site at www.solventreplacement.com

ANNOUNCEMENT

Scott Bader Inc., Stow, OH, has appointed Specialty Chemical Sales, Cleveland, OH, distributor in the upper Midwest. The distribution area includes northern Illinois, northern Indiana, Wisconsin, Minnesota, the upper peninsula of Michigan, North Dakota and South Dakota. Specialty Chemical Sales will represent Scott Bader's resins and rheological agents in the industrial coating, architectural coating and caulk and sealants markets.

CSCT Member Candidates for January 2004

Melissa Matheson
Picon Chemical, Inc.





CSCT & CPCA 2003
 "WINNER'S CIRCLE" HOLIDAY DERBY

FRIDAY, DECEMBER 5TH, 2003

at the
MARRIOTT OAK BROOK
 1401 West 22nd Street
 Oak Brook, Illinois
 630-573-8555

6:00 p.m. Reception
 7:00 p.m. Dinner
 8:00 p.m. Racing Begins

For more information or to make a reservation:

Contact Brenda at the CPCA at
 847-755-9850
www.chicagopaint.org

(Cost per person \$95. \$5 per person will be donated to the Joint Education Fund)

Please make your check payable to
 The Chicago Paint and Coatings Association and mail to
 400 East State Parkway, Suite 216. Schaumburg, IL 60173.

This year the Chicago Paint and Coatings Association and the Chicago Society for Coatings Technology is pleased to announce our first "Winner's Circle" Holiday Derby. It will be held on Friday, December 5th at the Marriott Oak Brook, 1401 West 22nd Street, Oak Brook.

We are giving our member companies an opportunity to sponsor a race or to sponsor a horse or horses. The sponsor names the race and horse or horses. Since there will only be six races, the number of race sponsorships will be limited and given out on a first come first served basis. The cost of sponsoring a race is \$500. The cost of sponsoring a horse is \$150. However if you sponsor four or more horses, the price is \$125 per horse.

We are also accepting donations to be used towards our reception and prize table. Contributions last year were generous, and we anticipate that they will be even more generous this year. Your participation in making this party a success is very much appreciated. On the evening of the event, all donating companies will receive recognition.

We want to thank you in advance for your support of our "Winner's Circle" Holiday Derby. Your prompt reply will be appreciated, so that we can finalize our plans.

Sincerely,

JOINT HOLIDAY PARTY COMMITTEE

Thomas J. Byrne, Adheron Coatings Corporation • William Heiden, Engineered Polymer Solutions, Inc.

**Dinner Selection for January 5th:
 Family Style & Vegetarian**

E-mail your dinner selection to: hwaltenspiel@nevchem.com

Please provide names and numbers of guests attending by 12/15/03 .

**Cost for Dinner - at the door:
 \$25 for members, \$30 for Non-Members and Walk-ins.**



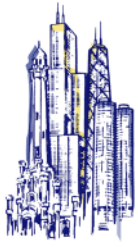
E-mail this to Herb Waltenspiel at hwaltenspiel@nevchem.com

I WILL ATTEND AND BRING _____ GUEST(S) FOR DINNER January 5th.

DINNER SELECTION: Family Style Vegetarian

NAME _____

COMPANY _____



Chicago Society for
Coatings Technology
c/o John Cox
Sherwin-Williams
549 E. 115th Street
Chicago, Ill 60628

Reminder:
Dinner Reservation response due by 12/15/03

CSCT Calendar of Events 2003-2004



November 3	John Du - Byk - Chemie USA	Steven's Steak House
December 5	CPCA / CSCT Joint Holiday Party	Oakbrook Marriott
January 5, 2004	Velsicol Chemical	Steven's Steak House
February 2	Lyondell Chemical	Steven's Steak House
February 12	SYMCO	Drury Lane
March 1	Eastman Chemical	TBD
April 5	EFKA Additives	TBD
May	Awards	
July 26	Golf/Tennis Outing	St. Andrews/Forest View



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847.202.9028

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