

## WATER TREATMENT POLYMER NEWS

The "Good-Rite® K-700 Water Treatment Polymer News" serves as a forum for providing information to our water treatment chemical (WTC) customers. You may view this newsletter and several previous issues using the web link noted below:

Online Water Treatment Polymer News

#### AWT-F-04 Technical Paper and Several Others Now Available on Web Site

A technical paper entitled "The Use of Polymers to Improve Control of Calcium Phosphonate and Calcium Carbonate in High Stressed Cooling Water Systems" (AWT-F-04) was presented by Noveon's Dr. Zahid Amjad at the Association of Water Technologies 2004 Annual Convention (Nov 3 to 6) in Nashville, TN. In this work, Noveon sought to identify water chemistries where the potential exists for calcium-phosphonate salts precipitation and determine the feasibility of using deposit control polymers (DCPs) to prevent the deposition of unwanted salts on heat exchangers. In this study, a sulfonic acid containing terpolymer (AST) was identified as an effective inhibitor for calcium phosphonates and CaCO<sub>3</sub> especially when blended with 2-phosphonobutane 1,2,4-tricarboxylic acid (or PBTC; high performance phosphonate) for highly scaling waters (i.e., 180x and 223x calcite saturation; LSI >2.75). Finally, the ability of phosphonates, DCPs, and phosphonate/polymer blends to change CaCO<sub>3</sub> crystal morphology was also explored.

Noveon's growing electronic library of water treatment chemical technical papers was expanded by more than six items including the AWT-F-04 technical paper mentioned above and other classics dating back to 1989. You will also find several other technical papers including NACE-88-11, TSD-34(1997)2, and TSD-36(1999)3 that address the control of CaCO<sub>3</sub> or Ca-phosphonate salts in aqueous systems. All these papers are available for viewing via the following web link below (check it out!). We welcome your feedback.

Online Water Treatment Technical Papers

### New and/or Updated Product Literature Available

During 2004, Noveon created and/or updated several product data sheets and technical bulletins pertaining to the Good-Rite K-700 polymers and their use including:

- A new technical data sheet that presents an overview of "Suppliers of Field Tests for Deposit Control Polymers" (GR-SFTDCP).
- Updated product family and technical data sheets for "GRK765 and GRK766 Sodium" Polymethyacrylates" (GRK700-NaPMAAs) and "GRK766 Sodium Polymethacrylate" (GRK766-TDS), respectively and the technical data sheet addressing the "FDA Status of Good-Rite K-700 Polymers" (GRK700-FDA-WTC).
- A new technical data sheet detailing "Methods for Determination of Silica Concentrations in Aqueous Solutions" (MDSCAS) and Noveon's "Silica Polymerization Inhibition Test Procedure" (Silica-PITP).
- New letters to address customer questions regarding Good-Rite K-700 polymers relative to CONEG model toxics legislation, environmental impacts, kosher status, and ozone depleting chemicals.

### Good-Rite K-766 Sodium Polymethacrylate Specification Change

Noveon periodically reviews and compares our product specifications and manufacturing process capabilities for our products. In Mar-04, Noveon further adjusted (i.e., decreased) the viscosity specification range for Good-Rite K-766 NaPMAA as a continuation of the process that began in Jul-02 when we decreased the degree of NaOH neutralization for this product.

Please contact your local Noveon sales office or sales representative with any questions or comments.

# Seasons Greetings and Best Wishes for the New Year!

Noveon, Inc., 9911 Brecksville Road, <u>Cleveland, Ohio</u> 44141-3247 USA. <a href="http://www.noveoncoatings.com/products/americas/specialtyMarkets.asp">http://www.noveoncoatings.com/products/americas/specialtyMarkets.asp</a> or <a href="http://www.noveonsolutions.com">http://www.noveonsolutions.com</a>

Responsibility	Location	E-mail Address	Phone No.	FAX No.
USA Customer Service	Cleveland, OH		800-380-5397	216-447-6315
International Customer Service	Cleveland, OH	betsy.bertovich@noveon.com	216-447-5870	216-447-6144
Marketing & Technical Service	Cleveland, OH	bob.zuhl@noveon.com	216-447-7584	216-447-5238
USA Sales & Tech. Service / East Coast & Midwest **,*	Atlanta, GA	<u>zibexinc@cs.com</u> Or <u>ifzibrida@cs.com</u>	770-417-1426	770-417-1429
USA Sales & Tech. Service / West Coast #,**	Los Angeles, CA	cpchem@aol.com	909-869-1186	909-869-5840

- USA manufacturer's representative for Noveon's Good-Rite K-700 Polymers
- \* ZIBEX, Inc., P.O. Box 3009, Duluth, GA 30096
- \*\* Creative Performance Chemicals, Inc., 18760 East Amar Road, Suite 170, Walnut, CA 91789

Noveon Locations and Distributors Outside the United States				
Noveon Europe B.V.B.A. (Europe, Middle East, Africa) Camino de Can Caldes, 13/17 P.O. Box 104, 08173 Sant Cugat del Valles Barcelona, <u>Spain</u> P/+34-93-590-2916, F/+34-93-590-2940 Ester Salvador, <u>ester.salvador@noveon.com</u>	Noveon Asia Pacific Ltd. 1107-1110 Shui On Centre 6-8 Harbour Road, Wan Chai, Hong Kong P/852-2508-1021, F/852-2512-2241 Laura Wong, laura.wong@noveoninc.com DP/852-2969-5127			
PIM Mexico, S.A. de C.V. Insurgentes Sur. No. 299 203 Col. Hipodromo Condesa 06170 Mexico, DF Mexico P/011-52-55-5564-6911, F/011-52-55-5564-6803 Gilberto Rocha, gilberto.rocha@pimmexico.com	Noveon Canada Inc. 100 Regina Street S., Suite 360 Waterloo, Ontario, Canada N2J 4P9 P/519-888-3330, F/519-888-3337 Carol Meagher, carol.meagher@noveoninc.com DP/519-888-3336			

Contact your local Noveon sales representative or office with any questions. You can obtain the name of the Good-Rite K-700 polymer sales representative, distributor, or agent for your area by contacting Noveon's regional office (Cleveland, OH, USA for the Americas; Barcelona, Spain for Europe, the Middle East, and Africa; or Hong Kong for the Asia-Pacific region) for your location.

Please notify Noveon <br/> <br/>bob.zuhl@noveon.com> of any changes in your address, telephone No., or FAX No.

