



**SOCIETY FOR THE ADVANCEMENT
OF MATERIAL AND PROCESS
ENGINEERING**

NEW JERSEY CHAPTER

**SEPTEMBER NEWSLETTER & MONTHLY NOTICE
SEPTEMBER 9, 2010 (2ND THURSDAY)**

**HENKEL'S APPROACH TO REDUCTION OF HEXAVALENT
CHROME IN CONVERSION COATINGS**

**MATTHEW CLARK
Applications Specialist
Henkel Aerospace Group
Henkel Corporation
32100 Stephenson Highway
Madison Heights, MI 48071
Email: matthew.clark@us.henkel.com
Phone: 248-577-8342**

MEETING DETAILS

Place: Bridgewater Manor, Bridgewater, NJ; (908) 658-3000
Time: 5:30 Cocktails (Cash Bar); 6:15 Dinner; 8:30 Adjourn
Cost: \$10.00 Advanced Registration; \$15.00 at Door; Students - Free

This meeting is open to all SAMPE members, spouses, guests, and other interested parties

Reservations please contact John Osterndorf at 973-248-5885 or by email at sampejohn@yahoo.com
by noon the Wednesday before the meeting.

Directions to Bridgewater Manor: From I-287 north, take exit 22A (206 south). Go thru two lights, Bridgewater Manor is on right. From I-287 south, take exit 22. Make right at end of ramp. Make next left, a jughandle to cross 202/206 to go south on 202/206. Go thru three lights, Bridgewater Manor is on the right.

SAMPE Best Chapter Award Winner:

1990, 1991, 1992, 1993, 1995, 1996, 1997, 1998, 1999, 2000, 2001

SAMPE Chapter Service Excellence Award Winner:

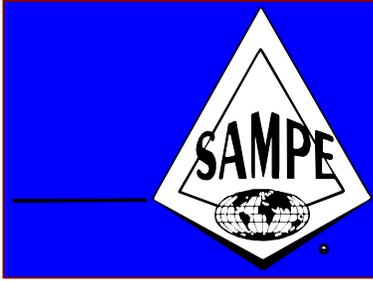
2002, 2003, 2004, 2005, 2006 (award retired after 2006)

SAMPE Chapter Sponsored Conferences:

ISSE – 1990(Anaheim), 1994(Anaheim), 1996(Anaheim), 1998(Anaheim), 2002(Long Beach)

ISTC – 1981(Mt. Pocono), 1989(Atlantic City), 2006(Dallas), 2009(Wichita)

ISEC – 1994(Parsippany)



**NEW JERSEY CHAPTER SAMPE
SEPTEMBER NEWSLETTER**

Page 2

2009 – 2010 MEETING SCHEDULE

September 9, 2010 – Henkel’s Approach to Reduction to Hexavalent Chrome in Conversion Coatings, Matthew Clark, Henkel Corporation, Madison Heights, MI	March 3, 2011 – TBD
October 7, 2010 – TBD	April 1, 2011 – TBD
October 11 – 14, 2010 42 st International SAMPE Technical Conference, Salt Lake City, UT Sponsored by the Utah Chapter	May 5, 2011 – TBD
November 4, 2010 – TBD	May 17 – 20, 2011 – 55 th International SAMPE Symposium & Exhibition, Long Beach Convention Center, Long Beach, WA Sponsored by Orange County Chapter
December 2, 2010 – TBD	June 2, 2011 – TBD
February 3, 2011 – TBD	July 7, 2011 – 28 th Annual NJ SAMPE Golf Tournament, Picatinny Arsenal, NJ

Notes The NJ Chapter sponsors a student chapter at Drexel University.

JUNE MEETING

At the June meeting, Mr. Erik Schwartz gave an excellent presentation entitled Digital Image Correlation – Full Fielded Optical 3D Deformation and Strain Measurement, from Test Lab to Field. The New Jersey Chapter wishes to thank Mr. Eric Schwartz for the excellent presentation.

UPCOMING CONFERENCES

**SAMPE 2010 – ISTC – Fall Technical Conference, Salt Lake City, UT
October 11 – 14, 2010, Sponsored by SAMPE Utah Chapter**

JEC 2010 Asia Show – Singapore, October 11 -14, 2010

**SAMPE 2011 – ISS&E – Long Beach CA. May 23 - 26, 2011
Sponsored by SAMPE Orange County Chapter**



**NEW JERSEY CHAPTER SAMPE
SEPTEMBER NEWSLETTER
Page 3**

**HENKEL'S APPROACH TO REDUCTION OF HEXAVALENT
CHROME IN CONVERSION COATINGS**

**MATTHEW CLARK
Applications Specialist
Henkel Aerospace Group
Henkel Corporation
32100 Stephenson Highway
Madison Heights, MI 48071
Email: matthew.clark@us.henkel.com
Phone: 248-577-8342**

ABSTRACT:

The Alodine® trade name has been used to represent aluminum conversion coatings since the 1940's. In the 1950's the first chromium-chromated series conversion coatings were introduced to the market. Until recent regulations were posted calling for the reduction of Hexavalent Chrome exposure, not much had changed from the reliable chromium-chromated series conversion coating. Matthew Clark, Application Specialist from Henkel's Aerospace Group, will discuss Henkel's Approach to Reduction of Hexavalent Chrome Exposure in Conversion Coatings. This discussion will provide an understanding of the path Henkel has chosen to reduce Hexavalent Chrome exposure without giving up the properties and reliability Henkel's Alodine® products have provided to the Aerospace industry for 70 years.

BIOGRAPHY:

Matt has worked for Henkel as Technical Service for Surface Treatments for the past five years. Before that he spent three years as Technical Service Team Lead for an adhesive company in the Detroit Area and five years as Research and Development Chemist for an automotive company. Henkel's Aerospace North American technical service team has a total of 57 years servicing the Aerospace Industry. Each technical service team member has a specific focus within Henkel's Aerospace group.



**NEW JERSEY CHAPTER SAMPE
SEPTEMBER NEWSLETTER
Page 4**

NEW MEMBERS

The New Jersey Chapter would like to welcome the following new chapter members:

Anthony Berajka

Blake Carnahan

Simon Chung

Frank Fisher

Kurt Kimball

Brett Kimball

John Madsen

Thomas Miebach

Anthony Olszewski

Maria Salamon

Michael Sandeen

Burt Shah

Gayathri Sharma

Ji Su

Brian Tatting

Jason Trelewicz

Ram Upadhyay

Ionicorp

Lockheed Martin

Materials Sciences Corp

Stevens Institute of Technology

Automated Dynamics Parts

Automated Dynamics

Northrup Grumman

GE Global Research

Unifrax Corporation

Research Support

Victrex Polymer Solutions

Boeing

Industrial Summit Tech

NASA Langley Research Center

Adoptech

Mesoscribe Technology

General Electric



NEW JERSEY CHAPTER SAMPE SEPTEMBER NEWSLETTER Page 5

2010 SAMPE Technical Conference and Exhibits

SAMPE is pleased to announce the co-location of the 2010 SAMPE Fall Technical Conference and Exhibits with the Tooling for Composites Conference 2010 in Salt Lake City, Utah from October 11-14, 2010.

This SAMPE conference offers M&P professionals, engineers, and researchers new applications, materials, and processes developments. Additionally, over 100 companies exhibit to provide you with services and products you need to complete your projects more cost-effectively. With the inclusion of the Tooling for Composites Conference 2010, this fall event is one you can't afford to miss.

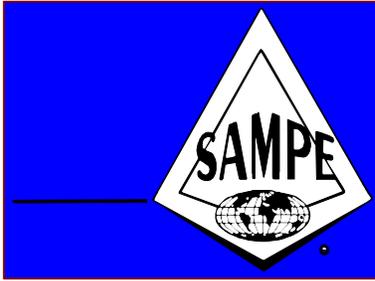
Visit the [2010 SAMPE Fall Technical Conference](#) webpage for conference program updates.

NEW JERSEY SAMPE WEBSITE

Visit www.NJSAMPE.org

We now have a website and we need lots of input and recommendations from you to make it useful. All of our sponsors have links to their sites. If you are a sponsor, please make sure it's linked to the right site. If you are a consultant and want your resume on line, we have a place for that too. Also on the website you will find a history of our chapter and our Bylaws. There's also a history of the Bridge Building contest, going all the way back to when it was only a high school contest.

So visit the website and get back to us with your recommendations and ideas and critiques. Please send them to hskliger@comcast.net.



NEW JERSEY CHAPTER SEPTEMBER NEWSLETTER

Page 6

EXECUTIVE BOARD

CHAIRMAN:

Benjamin M. Rasmussen
BMR Associates
908-561-0796/fax: 908-753-7917
bmrassociates@netcarrier.com

VICE CHAIRMAN:

Gail D. DiSalvo
GTD Consulting
908-953-0849/fax: 908-766-6373
disalvogail@aol.com

TREASURER:

John F. Osterndorf
973-248-5885 (cell)
sampejohn@yahoo.com

SECRETARY:

Borys Schafran
Evonik Degussa Corporation
Tel 973-541-8172/fax 973-541-8161
borys.schafran@evonik.com

PROGRAMS:

Tony Constantino
Fiber-Line Inc
215-997-9181
Cell : 267-885-7144
tconstantino@fiber-lineinc.com
Tconstantino2@yahoo.com

DIRECTORS:

Howard S. Kliger
H. S. Kliger & Associates, Inc.
732-469-7646/fax: 732-469-6641
hskliger@comcast.net

Louis A. Pilato
Pilato - Consulting
732-469-4057/fax: 732-764-9747
lapilato@optonline.net

Benjamin M. Rasmussen
BMR Associates
908-561-0796/fax: 908-753-7917
bmrassociates@netcarrier.com

PAST CHAIRMAN:

1977 – 1978 Raymond F. Wegman
1978 – 1979 William J. Russell
1979 – 1980 Michael Michno
1980 – 1981 Fred H. Ancker
1981 – 1982 Natalia Chujko
1982 – 1983 Robert J. Narsavage
1983 – 1984 Richard W. Reiter
1984 – 1985 Howard S. Kliger
1985 – 1986 John Burlage
1986 – 1987 John F. Osterndorf
1987 – 1988 Thomas J. Green
1988 – 1989 Harry S. Katz
1989 – 1990 Benjamin M. Rasmussen
1990 – 1991 Harry Tenney
1991 – 1993 Louis A. Pilato
1993 – 1994 John Burlage
1994 – 1995 Richard A. Walther
1995 – 1996 Frans van Anterpen
1996 – 1997 Kathleen A. Froelich
1997 – 1998 Gail D. DiSalvo
1998 – 1999 Ash Chopra
1999 – 2010 Benjamin M. Rasmussen

SAMPE FELLOWS:

1985 Raymond F. Wegman
1987 Dr. Carl H. Zweben
1989 Robert Pickney
1990 Dr. Frank K. Ko
1992 Fred H. Ancker
1993 Leonard Poveromo
1999 Dr. Howard S. Kliger
2001 Dr. Louis A. Pilato
2001 Harry S. Katz

SENIOR HONORARY MEMBERS:

Richard G. Adams
Edward A. Gallagher
Charles N. Muldrow
William D. Timmons
Raymond F. Wegman



**SEPTEMBER NEWSLETTER
CHAPTER SPONSORS**

Page 7

<p>ACTEGA Radcure, Inc. Jim Wittig 5 Mansard CT. Wayne, NJ 07470 Tel: +1 973 808 1002 Fax: +1 973 808 6886 jim.wittig@altana.com www.actega.com</p>	<p>A & P Technologies Andrew A. Head 4595 East Tech Drive Cincinnati, OH 45245 513-688-3200 Fax: 513-688-3201 ahead@braider.com www.braider.com</p>	<p>Engineered Fibers Technology Robert E. Evans 25 Brook Street Shelton, CT 06484 203-922-1810, X335 Fax: 203-922-1814 efiberstec@aol.com www.EFTfibers.com</p>
<p>Airtech International, Inc. Peter Grantham 5700 Skylab Road Huntington Beach, CA 95647 714-899-8100 Fax: 714-899-8179 pgrantham@airtechintl.com www.airtechintl.com</p>	<p>Alcan Baltek Corporation Marc A. Anderson 108 Fairway Court Northvale, NJ 07647 201-767-1400 Fax: 201-387-6631 marc.anderson@alcan.com www.alcanbaltek.com</p>	<p>Evonik Degussa Corporation Borys Schafran 379 Interpace Parkway Parsippany, NJ 07054 973-541-8172 Fax: 973-541-8161 borys.schafran@evonik.com www.evonik.com</p>
<p>Argosy International Inc. Paul Marks 14 Penn Plaza New York, NY 10001 (212) 268-0003, X101 pmarks@argosyinternational.com www.argosyinternational.com</p>	<p>Bryte Technologies Chuck Chakrabarti 1235 Beacon Hill Crossing Alpharetta, GA 30005 (770) 475-7977 Fax: (770) 475-7477 cchakrabarti@brytotech.com www.brytotech.com</p>	<p>Fabric Development Inc. Mary P. Shafer 1217 Mill Street Quakertown, PA 18951 215-536-1420 mshafer@fabricdevelopment.com www.fabricdevelopment.com</p>



**SEPTEMBER NEWSLETTER
CHAPTER SPONSORS
Page 8**

<p>General Magnaplate Edmund Aversenti 1331 US Route 1 Linden, NJ 07036 908-862-6200 Fax: 908-862-6110 eaversenti@magnaplate.com www.magnaplate.com</p>	<p>Kenrich Petrochemicals Mr. Salvatore J. Monte 140 East 22nd St., POB 32 Bayonne, NJ 07002 201-823-9000 Fax: 201-823-0691 sjmonte@4kenrich.com</p>	<p>Northern Fiber Glass Sales Richard Hewitt PO Box 2010 Hampton, NH 03843-2010 603-926-1910, ext. 16 Fax: 603-926-0598 rvh@nfgsales.com www.NFGSales.com</p>
<p>Gerber Technology Inc Dudley Fenn 24 W. Industrial Park Road Tolland, CT 06084 860-871-8082 Fax: 860-871-3730 dfenn@gerbertechnology.com</p>	<p>Loctite Corporation George Newton 1001 Trout Brook Crossing Rock Hill, CT06067 315-492-7571 george.newton@us.henkel.com www.loctite.com</p>	<p>Prince Sports Incorporated Steve Davis One Advantage Court Bordentown, NJ 08505-7620 609-291-5800 stevedavis@princesports.com www.princesports.com</p>
<p>GTD Consulting Gail DiSalvo 127 Rippling Brook Way Bernardsville, NJ 07924 908-953-0849 Fax: 908-766-6373 gail.disalvo@att.net</p>	<p>Lonza Group Sajal Das 90 Boroline Road Allendale, NJ 07401 201-316-9218 sajal.das@lonza.com www.lonza.com</p>	<p>Utility Development Harry Katz 112 Nylon Road Livingston, NJ 07039-1006 973-994-4334 Fax: 973-994-3341 Harryskatz@aol.com www.udccorp.com www.radcure.com</p>
<p>Henkel Aerospace Michael Portwood 2850 Willow Pass Road Bay Piont, CA 94565 925-458-8000 Cell 717-817-1532 Michael.portwood@us.henkel.com www.aerospace.henkel.com</p>	<p>Mektech Composites Inc. Aram Mekjian 40 Strawberry Hill Road Hillsdale, NJ 07642 201-666-4880 Fax: 201-666-4303 mekmail@prodigy.net</p>	<p>3M Aerospace Renee Rainboth 3M Center St. Paul, MN 55144-1000 (856) 769-8565 Fax: (856) 769-8566 rarinboth@mmm.com www.3m.com</p>

