



Inkjet Printer Conferences Worth Attending

The Tiara Group



A typical presentation at The Tiara Group

Imaging Materials Breakthroughs in 2005 Creating the Challenges in Digital Printing Media for 2006

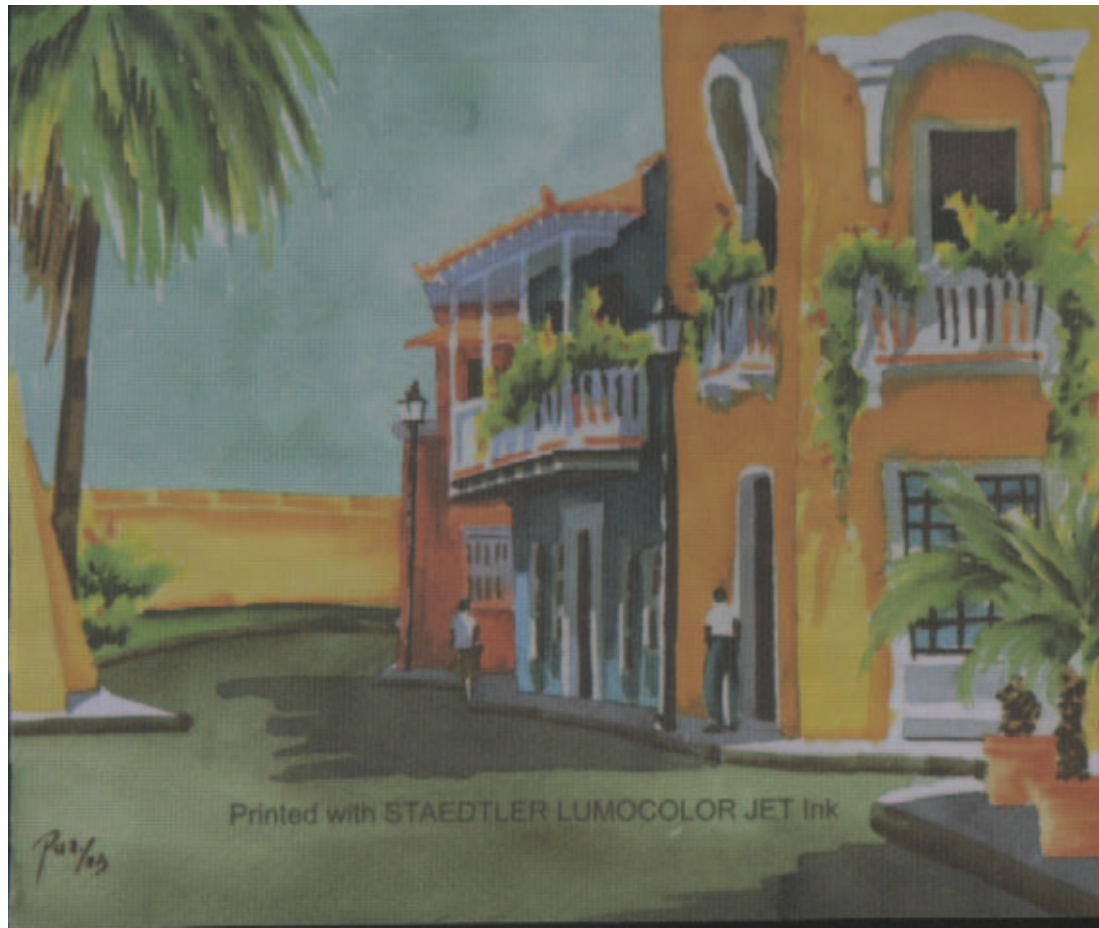
Keynote address by Dr. Nicholas Hellmuth
for 22nd annual Specialty Papers & Media
March 12-14 2006,
Hyatt Regency, Savannah, GA

After attending digital imaging printing trade shows across the USA and Europe in 2005 I have seen the breakthroughs for last year leading to the challenges for 2006 onward. I would like to review 2005 and preview 2006.

Naturally, a media manufacturer will prefer inks that require specialty media. But the consumer may boycott media that is too expensive. A real-world example will be presented. At the far other end is the absolute cheapest material, ordinary kraft paper, aluminum foil from Kroger's or Wal-Mart, uncoated wallpaper. What would happen to the world of inkjet, as we now know it, if an ink could print equally well on every substance you could feed through the printer? In Italy I saw two such printers in a single trade show.

Although the discussion will be on what fits with the theme of this Tiara Group conference: media and substrates, it is always an ink-media interaction, along with hardware technology, that makes using one specialty media possible over another. My reference point will be photographic quality, so near-continuous tone when possible. Indeed at DRUPA 2004 I saw giclee-quality art being produced with a Toshiba copier. Variable data short run digital presses are producing fine art quality photographic prints already.

Because this conference is specifically on media for inkjet printing, I will focus on what can be jetted through printheads and what can receive this kind of ink. But HP and Ricoh printheads can also create 3-dimensional objects. We use a Z-Corp printer with HP printheads to build completely three-dimensional recreations of Mayan pyramids of ancient Mexico. And other digitally controlled devices, albeit not inkjet, can also "print" on metal, plastics, and wood: namely laser engravers. We engrave 7th century Mayan hieroglyphic texts into wood; a thousand



years ago they carved the identical designs by hand. Today we can do this digitally.

Since other distinguished speakers will be speaking on inkjet inks for printing on textiles, and on materials for UV-cured inks, I will not preempt their discussions. As keynote speaker I will review the recent year and preview what we can look forward to in our future of specialty materials for inkjet printers.

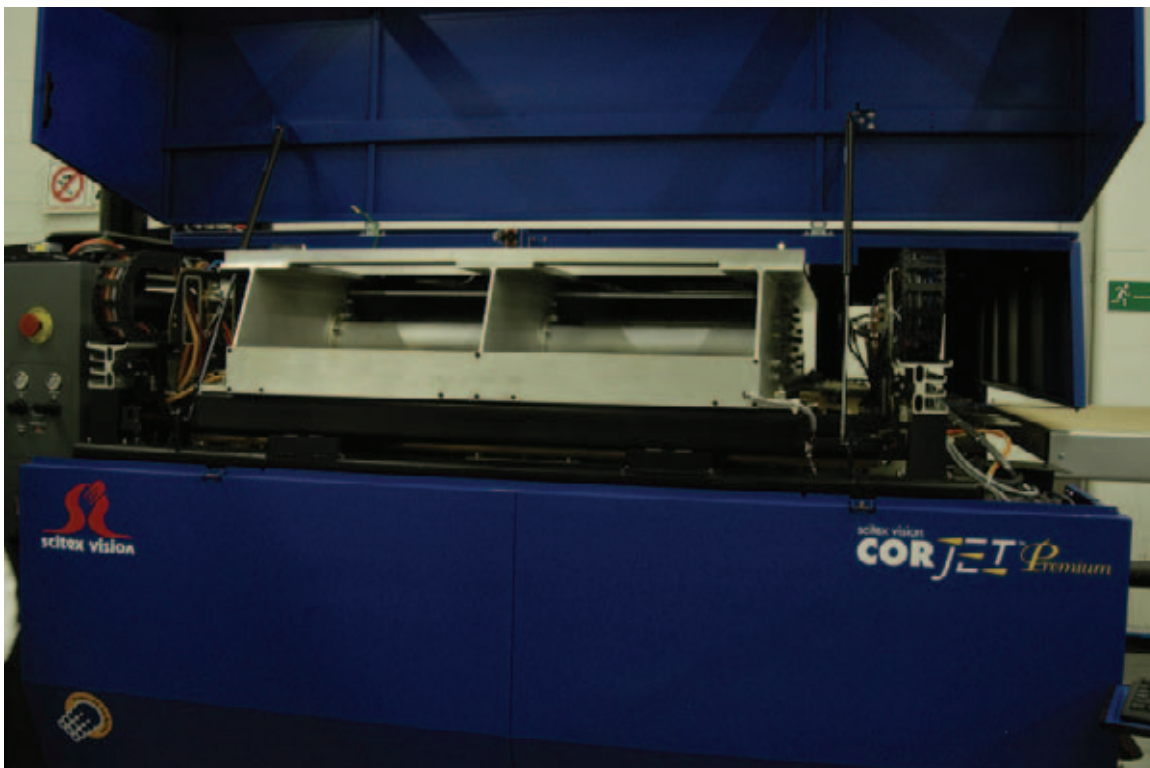
www.TheTiaraGroup.com

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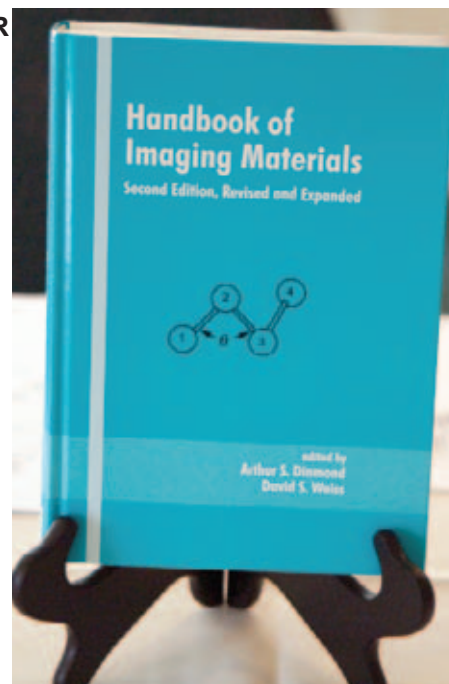
fax 419 372 8283



The following is a tentative program for the Tiara Group's Specialty Papers & Media conference on March 12-14 2006

SUNDAY, March 12, 2006

7:30 AM GOLF: The Savannah Challenge
to Low Net, Low Gross Flights;
12:00 M Men & Women's Competition
10:30 AM Exhibitor Set-Up -
12:00 M Registration -
1:00 PM TUTORIAL I – FUNDAMENTALS OF PAPER COATINGS
*John A. Roper III
*DOW CHEMICAL COMPANY
2:00 PM TUTORIAL II - PAPERS FOR INK JET PRINTING
Dr. Lori Shaw-Klein
EASTMAN KODAK COMPANY
3:00 PM Refreshments -
3:30 PM TUTORIAL III - AN OVERVIEW OF WIDE FORMAT DIGITAL COLOR
Mr. Chuck L. Sharp, President
DIGITAL IMAGE TECHNOLOGY
6:30 PM RECEPTION -
7:00 PM DINNER -
8:15 PM WELCOME -Mr. Art Diamond, Chairman
THE TIARA GROUP, LLC
8:30 PM KEYNOTE ADDRESS:
Breakthroughs That Challenge Digital Printing Media
Dr. Nicholas Hellmuth, Director
Large Format Imaging Division
BOWLING GREEN STATE UNIVERSITY



MONDAY, March 13, 2006

7:30 AM Complimentary Coffee & Tea -
Late Registration - Ballroom Foyer
8:00 AM OPENING REMARKS
Mr. Art Diamond, President
DIAMOND RESEARCH CORPORATION
Welcome; Conference Caveats & Objectives; Confidential Information;
Commercial Messages; Getting the Most Out of this Meeting;
Introducing Session Chairs.
8:15 AM SESSION 1 - INK JET MEDIA MARKETS, APPLICATIONS & OPPORTUNITIES
Ms. Merilyn Dunn, Director
INFOTRENDS/CAP VENTURES
Company Background; Growth of Ink Jet Imaging; Market Dynamics; Market Size &
Structure; Office, Consumer & Digital Color Imaging Applications; Trends; Future Outlook.
9:15 AM SESSION 2 - WIDE- & SUPERWIDE FORMAT APPLICATIONS: A MARKET OVERVIEW
Ms. Lisa Onesto, Sr. Consulting Project Manager
WEB CONSULTING, INC.
Company Background; Definitions; Applications; Areas of Greatest Growth; Inks &
Media: Solvent-based & UV Curables; Vinyls, Textiles, Canvas, etc.; Trends in Markets;
Trends in Technology; Future Outlook.
9:30 AM Spouse's Continental Breakfast
10:15 AM Refreshments Served -
10:45 AM SESSION 3 - A BREAKTHROUGH IN INK JET PRINTING INK FOR ALL FABRICS
Dr. Andrew Hancock, Technical Director
DIGITAL PRINTING TECHNOLOGIES
Company Background; A New Ink for 100% Cotton, Polyester, & Other Fabrics; Durability
Comparable to Dye Sub Inks; Availability; Other Properties; Future Outlook.
11:45 AM Luncheon -
1:30 PM SESSION 4 - SPECIALTY MEDIA FOR UV CURING INK JET INKS
Dr. Ray A. Work, III, President
WORK ASSOCIATES, INC
Company Background; The Problems: Adhesion, Dot Spread,
Flexibility; Future Developments.
2:30 PM SESSION 5 - DIGITAL TEXTILE PRINTING OF APPAREL & HOME FASHIONS

Mr. William Grier, President

BETACOLOR

Company Background; Subsurface Printing with Digital Dyes; Upholstery, Home Fashions, Uniforms, Performance Clothing; Future Outlook.

3:30 PM Refreshments Served

4:00 PM **SESSION 6 - NETWORKING**

Mr. Terry Gorka, Managing Director

THE TIARA GROUP, LLC

A group interactive session open to the floor; a platform for publicizing your company's products or services.

6:00 PM **COCKTAIL RECEPTION -**

to 7:00PM Hors d'oeuvres, No Host Bar - An Extension of Networking

TUESDAY, March 14, 2006

7:30 AM Complimentary Coffee/Tea -

8:00 AM **SESSION 7 - WHAT'S NEW IN INK JET COATINGS FOR PAPERS & MEDIA?**

Mr. Dana Field, VP of Technology

ESPRIX TECHNOLOGIES

Company Background; Substrate Properties; Image Quality; Brightness; Absorption Characteristics; Specialty Dye Fixatives; Dispersed Particles; High Pore Volume Alumina Particles; Future Outlook.

9:00 AM **SESSION 8 - AN UPDATE ON THE USE OF**

GELATIN IN INK JET MEDIA COATINGS.

Dr. John M. Dolphin, Corporate Vice Pres.

GELITA/NORTH AMERICA

Company Background; Ink Jet & Photographic Papers & Films; Gloss; Dry Time; Image Adhesion; Image Permanence; New Technology; Future Outlook.

10:00 AM Refreshments Served -

10:30 AM **SESSION 9 - *QUALITY PAPERS FOR COLOR PRINTING**

Mr. Jim Marcinkiewicz, Print Media Mgr.

CANON USA

*Company Background; Quality Issues for Ink Jet & Toner Imaging Systems; Coated & Uncoated Media; QC Testing Protocol; Future Outlook.

11:30 AM **SESSION 10 - EMERGING PAPER RECYCLING TECHNOLOGY**

Dr. Jeffery Hsieh, Professor of

Chemical Engineering

GEORGIA INSTITUTE OF TECHNOLOGY

Background of the Institute of Paper Science; Waste Paper Definitions; Importance of Recycling Post Consumer Waste; Prior Art Technologies; De-Inking and Repulping Methods; Future Outlook.

12:30 PM Luncheon -

2:00 PM **SESSION 11 - SIGNS OF THE FUTURE:**

WILL ELECTRONICS REPLACE HARD COPY?

Mr. Kevin Massy, Associate Editor

AKA.TV

Company Background; Overview of the Signage Market; Signs Are Changing; Need for New Technology; LED, LCD, and Prism Systems; Instore Signage; Outdoor Signage; The Players; Future Outlook.

3:00 PM Refreshments Served -

3:30 PM **SESSION 12 - SPECIALTY MEDIA FOR COLOR TONERS**

Mr. Hai Quang Tran, R&D Project Manager

Media Systems and Solutions (MSS)

HEWLETT-PACKARD COMPANY

Company Background; Overview of DEP technology; Trends in Commercial/Brochure printing using DEP Technology; Challenges of DEP technology printing on Specialty Media; Research and Development of Coated Media; Future Outlook.

4:30 PM **WRAP-UP**

Mr. Art Diamond, Chairman

THE TIARA GROUP

Summary of Conference Proceedings; Results & Conclusions; Observations; Critique.

4:45 PM **CONFERENCE ENDS**

