

COMMITTEE FOR GRAPHIC ARTS TECHNOLOGIES STANDARDS

Secretariat:

NPES The Association for Suppliers of
Printing, Publishing and Converting Technologies
1899 Preston White Drive
Reston, Virginia 20191-4367
Telephone: 703/264-7200
Fax: 703/620-0994
Internet: <http://www.npes.org>



CGATS/SC3 N 1104
CGATS/SC3/TF1 N 181
CGATS/SC4 N 1022
USTAG/TC130 N 3138

DRAFT MINUTES

JOINT MEETING

CGATS SC3 – Metrology
CGATS SC3 TF1 – Objective Color Matching
CGATS SC4 – Process Control
USTAG to ISO TC 130 WG 3 and WG 4

RIT
Rochester, NY
November 12-13, 2008

1 Call to order

The meeting was called to order at 8:30 a.m. by Ray Cheydleur, SC3 Chair. The following were in attendance and introduced themselves:

Ray Cheydleur, Chair, SC3	X-Rite
Howard Nelson, Chair, SC4	ASU
Richard Goodman, Vice Chair, SC4	RMG Consulting
David McDowell, Chair, USTAG	NPES
Larry Warter, Chair, SC3/TF1	Fujifilm
Mary Abbott, Secretary	NPES
Debbie Orf, Secretary	NPES
Bruce Beyer	Gravure Association
David Niles	Sappi Fine Paper
Heath Luetkens	CGS
Dick Presley	Kodak
Dianne Kennedy	IDEAlliance
John Iobst	NAA
Victor Asseiceiro	GMG
John Daugherty	NAPIM
Gary Russell	Phototype
Steve Smiley	Vertis
Danny Rich	Sun Chemical
Steve Suffeletto	RIT
Fred Hsu	RIT
Lee Ormati	Mitsubishi Imaging
Bill Pope	FTA
Eric Dalton	JUST Normlicht
Eric Zeise	Eastman Kodak
John Seymour (by phone)	Quad/Tech

2 Review agenda

The committee reviewed the draft agenda, which had been distributed by e-mail prior to the meeting. The following items were added:

- Discussion of Goodman's comments on the Systematic Review of ISO 12218 (as agenda item 10n)
- Discussion of proposal to develop PDF/X for packaging (as agenda item 10m)
- Proposal from Seymour re addressing XYZ TVI in ISO documents (USTAG N 3135) (as agenda item 10o)
- Discussion of white backing used for proofing substrate (under agenda item 6)

The agenda was approved as amended. The revised agenda will be kept on file by the Secretariat.

3 Review minutes of last meeting

The committee reviewed the minutes of the July 15-16, 2008 meeting, which had been distributed by e-mail prior to the meeting. The following correction was noted:

- (under 7) the addition of "linear scaling using" in the following sentence: "These are a variant on the tristimulus backing correction and a method based on linear scaling using CIE colorimetry."

The July 2008 minutes were approved as corrected. The revised minutes will be kept on file by the Secretariat.

4 Review status of action items

The committee reviewed the action items from the last meeting, noting the status of each as follows:

AI #	Action Item	Status
SC4-08-03	McDowell will prepare a revised draft of CGATS/FTA TR 007, and provide it to Abbott for circulation for review prior to the next meeting.	Completed (SC4 N 1011)
SC4-08-04	Seymour will describe an experiment to determine the correlation between the backing correction methods and the colorimetry correction method, using papers over a wide range of L*, for circulation to the committee. If the proposed experiment is supported by the committee, Seymour will conduct the experiment and provide results for discussion at the next meeting. (Relates to CGATS/FTA TR 007)	Completed (SC4 N 1017). This will be discussed during the review of CGATS/FTA TR 007.
TAG-08-05	Seymour will recommend where in the ISO documents a definition of XYZ TVI should best be addressed.	Completed (USTAG N 3135)

5 Report on status of request to Rodriguez for white paper re CGATS/SWOP Technical Reports

Kennedy and Smiley reported there is a revised document that will be provided to CGATS, and will be included as an annex to the G7 2008 specification.

Action Item SC4-08-06: Kennedy will provide the Rodriguez white paper re CGATS/SWOP Technical Reports to Abbott for circulation to SC4 for review, prior to issuance as a White Paper.

6 Discuss if any action needs to be taken re paper color for characterization data sets

Smiley reported this had been discussed at the Print Properties meeting held earlier this week. At that meeting, it was agreed to keep the SWOP and GRACoL data sets where they are right now, especially since Adobe has recently released software containing profiles using these data sets. Changing them now may cause confusion, and it is likely the values will continue to change over the next year, making it somewhat of a moving target for the time being.

Warter is preparing a document for publication on SWOP and GRACoL websites recommending that if there is a need to adjust characterization data for a change in substrate color, the tristimulus formula provided in the Technical Reports should be used.

Ornati reported on efforts to obtain SWOP proofing paper, which is generally felt to be "too yellow". Getting a paper mill to make the paper to current specs, only to find it is "wrong" (or "close") and won't be used, would not be desirable. Luetkens confirmed these concerns, saying that customers are pushing toward a b^* of 2.5.

Niles reported that paper manufacturers are selling paper based on appeal to the customer, not whether or not they meet the aims of the standards groups. Difference in paper shade is one way paper companies differentiate themselves.

It was suggested that work may begin to prepare and test changes to the datasets that could be issued in the future. Another proposal discussed was to collect papers and measure them under defined conditions to obtain numbers that look to the future. It was felt this might be viable at some point at the future, but that things are changing too much right now to make that useful. Paper is changing, viewing conditions and measurement conditions are still in a state of flux. Thus, it was felt that we need to wait until things settle down a little before issuing revised data sets.

Action Item SC4-08-07: Niles will provide paper measurement data and measurement conditions to Smiley and Cheydleur.

Action Item SC4-08-08: Smiley will get data sets from Rodriguez that have been slightly modified and provide them to Abbott for circulation to SC4.

Action Item SC4-08-09: Warter will provide the informative piece he is developing for the Print Properties Committee (discussing the issue of changing data) to Abbott for distribution to SC4 for information.

As a result of this discussion, it was felt at this time, CGATS will not attempt to make changes to the data sets, but will be receptive to work done by the Print Properties Committee, and others, that will lead to future changes to the current data sets, or the development of new data sets.

Ornati indicated they are attempting to make SWOP 3 papers. However, they find that if the paper measures the same with white backing, it "looks" different when self-backed. If it looks the same with self backing, it measures different when using white backing. As a result of discussion, it was felt that measurement over a white backing (as defined in CGATS.5) is the best practice. It was noted that slight changes in the white backing should have no effect unless the paper is very translucent.

Action Item SC4-08-10: Ornati will prepare measurement data for measurements taken using both self-backing and white backing, and provide it for the committee to review.

7 Status of CGATS/FTA TR 007

Draft #1 of CGATS/FTA TF 007 (SC4 N 1011) was distributed to the committee in September, with a request for review and comments. Comments were received from Danny Rich (SC4 N 1015). The committee discussed these comments, along with others raised during the meeting, and changes were made to the draft as appropriate.

Smiley reported they have identified printers who agreed to print to a proposed data set. They expect to have the printing tests completed by end of first quarter of next year. These tests will result in a data set for TR 007.

The comments received from Danny Rich and the resolution of those comments is as follows:

Section	Comment	Resolution
Front matter	The list of officers and members of the FTA Flexo Quality Consortium are missing	This information will be added once the document is balloted and approved
Scope	Use "substrate" instead of "sheet" here. This is for web printing on flexible packaging films not cut sheets.	Accepted
3	There should be definitions of colorimetric tone value for the TVI curves in Figure 1, including any corrections to the X function for the shortwavelength peak	Accepted
4 par 1	Subject and predicate do not match so use of plural verb is required.	Accepted
4 par 1	change "papers" to "substrates"	Accepted
5 par 3	"data" is always a plural noun and requires a plural verb	Accepted
5 par 3	"tern" should be "turn"	Accepted
5 par 3	"CRACoL" should be "GRACoL"	Accepted
5 par 4	"CRACoL" should be "GRACoL"	Accepted
5 par 5	There are a large number of proprietary software packages being referenced here	Noted. This is a report of the procedure followed and includes identification of the specific software used.

It was agreed to await the insertion of the characterization data and the issuance of a new draft to review the document in more detail.

7a Correction of backing for printing on clear substrates

Seymour noted that at the last meeting, Smiley had offered to provide a collection of printed material on various substrates. Seymour would then measure these using different backing materials, and attempt to identify a calculation technique that would convert the data to a reference or "standard" backing material.

McDowell pointed out that A.5 of ISO 13655 contains information relating to measurement of printing on transparent (clear) substrates. It was noted this does not contain a recommendation for translucent materials.

Smiley showed graphical data representing measurements taken of a translucent material using the same instrument, but with different backings.

Pope reviewed FTA work to measure color on film substrates, using different backings. He noted that the data obtained is still experimental and no definitive conclusions have been drawn.

It was agreed that at this point, we do not have a proposal ready for inclusion in ISO 13655; however, it was suggested that some additional "generic" wording could be added to the DIS. McDowell will provide the recommended wording to the document editor, Andreas Kraushaar.

Action Item SC4-08-11: Pope will report back to the committee on the FTA work relating to measurement of the color of printed material on film substrates.

7b Review proposed experiment to determine correlation between backing correction methods

At the last meeting, Seymour was asked to describe an experiment to determine the correlation between the backing correction methods and the colorimetry correction method, using papers over a wide range of L*. He provided a proposed experiment (SC4 N 1017). This was an attempt to identify a way to correct characterization data or data read from a proof where the substrates are different to allow them to be compared in a more valid manner.

Seymour stated he has data that has been collected from 16 different stocks from the same print run. One question is whether or not we can take an existing characterization data set and translate it to a different paper. Paper is now whiter than it has been in the past, and the paper that is in the TR 003 data set is no longer available. We would like to find a transform that will allow us to go from that paper stock to another paper stock and predict the outcome.

He reported that he has received a response from David Zwang, who has already done this work and is willing to share this information with CGATS. However, this has not been done to date.

Action Item SC4-08-12: Seymour to provide his data to the committee for further review.

8 Report on status of GAA work to develop a reference color characterization data set

Kennedy noted there was a study done of gravure printing to SWOP curves, and it was found that the resulting data was compatible with SWOP data for publication gravure. This supports work done several years ago by CGATS, which led to the same conclusion. In addition, for other non-packaging work (such as catalogs), the GRACoL data set is appropriate.

However, it was felt there may be differences for packaging gravure. Nelson noted that the gravure community is considering the benefit of characterizing a specific ink-set/substrate combination.

It was agreed that much gravure package printing is done with "non-standard" process inks. It was suggested the first step would be to define the inks that are used by a large segment of the gravure package printing industry, and then begin to work to identify one or more characterization data sets for this segment. The process used to develop the flexo characterization data sets may provide an example to follow

Action Item SC4-08-13: Smiley to provide flexo Roadmap document to GAA.

Action Item SC4-08-14: Abbott to circulate CGATS characterization data set development white papers for review and discussion at the next meeting.

Action Item SC4-08-15: Kennedy to discuss with GAA a possible amendment/revision of TR003, TR005 and TR006 to include recommendations for gravure publication printing; Kennedy to then make a proposal to CGATS for action.

9 Discussion of how/if to proceed with SC3/TF1 work

It was reported that, due to a change in corporate responsibilities, Ken Elsman will not be able to continue with this CGATS work, which was initiated to meet the following goal:

Help the printing industry to develop a metrology-based approach to predicting a visual match between a press sheet and a digital proof (other print sample comparisons exist) that was made to represent that press sheet. By extension, this proof should be able to predict the visual appearance of press sheets printed in the future provided the process control remains in control and materials (inks, paper, etc.) remain the same.

Over time, it has become apparent this is a complex task with a large number of variables.

The question was raised if this work is still of interest to the committee. The committee felt there is still a need for this work; however, other items have taken a higher priority and there is no project leader at this time. As a result of discussion, it was agreed this work should be put on hold and TFI should be made inactive. Should someone express an interest in reactivating this work and leading the project, the task force can then be reactivated. At that time, a new chair of the Task Force would be identified.

Action Item SC3-08-16: Abbott will ballot to SC3 the recommendation to make TF1 inactive.

10 Review TC 130 activities that may impact CGATS SC3 and SC4

10a Review changes made to ISO/DIS 13655, *Graphic technology — Spectral measurement and colorimetric computation for graphic arts images*

McDowell noted that there is a need to ensure that ISO 13655, ISO 3664 and the ISO 5 standards are compatible and that there is an overlap of conditions among the three documents. He summarized the current measurement conditions (M1, M2 and M3), which are defined in ISO/DIS 13655, and which carry over to the other standards. He also noted at the September 2008 meeting of TC 130/JWG 8 (the committee revising ISO 13655), there was discussion of the need for an additional measurement condition to bridge between ISO 5-3 and ISO 13655 when a single set of spectral measurements is used to compute both density and colorimetry. This is being tentatively identified as M0 and basically represents the illumination conditions present in most spectrophotometers today. This measurement condition will also allow the practical data exchange of historical spectral data.

Additionally, there was discussion at the JWG8 meeting relating to measurement condition "M2".

As a result, JWG8 felt that measurement condition "M0" should be incorporated into ISO/DIS 13655 and edits relating to "M2" should be made. They agreed that with these changes, the document should undergo a second DIS ballot. A revised document was provided to the JWG 8 Technical Experts for review and comment prior to balloting. Several comments have since been provided to the document editor, Andreas Kraushaar.

It was noted that paper manufacturers in Europe don't believe having a D50 spectral power distribution (SPD) in the UV is adequate. They prefer the SPD be that of Illuminant C in the UV (from 400 nm down), and that of D50 in the visible (above 400 nm).

Once additional edits have been agreed upon by the JWG8, the document will be submitted for a second DIS ballot, with the target being no later than mid-January. Comments from the second DIS ballot will be addressed at the May 2009 TC130 meeting in Ft. Worth, Texas.

10b Review status of revision of ISO 3664, *Graphic technology and photography — Viewing conditions*

A TC130/TC42 Joint Working Group (JWG 24) has been revising ISO 3664. The revised document completed DIS ballot in August, with a negative vote from Germany. Germany wants an annex to show the calculations necessary to validate conformance with the various spectral criteria of the document. Rich has been working to develop these calculations. The proposed contents of such an annex are being circulated within JWG24. If Germany agrees to withdraw their negative vote upon incorporation of the new material, the document can then go directly to ISO/CS for publication.

10c Review issues relating to ISO 5 series

The four parts of the ISO 5 series, *Photography and graphic technology — ISO standard density measurements*, were approved as CDs for DIS. Comments from the CD ballot were reviewed at the September meeting of TC 42/JWG 21. Revised drafts have been prepared and have been submitted for circulation as DIS ballot.

10d Status of ISO 12647-7, *Graphic technology — Process control for the production of half-tone colour separations, proof and production prints — Part 7: Proof and validation print processes working directly from digital data*

ISO 12647-7 was published last year as a document strictly for contract proofs. In reaching final agreement on the publication draft of ISO 12647-7, TC130 WG3 agreed to immediately start a revision of the document to add in the conditions for validation prints.

As a result of discussion at the 2008 meeting in Amsterdam of TC 130/WG 3, the plans for revision of ISO 12647-7 were abandoned and it was agreed to create a new part of ISO 12647 to deal with validation prints and possibly digital production printing. However, the scope of the next standard has not yet been firmed up. Warter will be the document editor for ISO 12647-8.

10e New proposal for ISO 12647-8 to address lower quality proofing requirements for validation prints

See discussion in 10d, above.

10f New proposal for ISO 12647-? addressing proofing using color displays

This standard would define the requirements of the proofing. Luetkens has an action item from TC 130 WG 3 to develop an initial draft to accompany a NWI ballot. This standard would differ from ISO 12646, which defines the minimum criteria for the display itself.

10g Status of proposed new work item ISO 17972

At the last meeting of TC 130 WG 2, it was agreed to reactivate ISO/WD 17972 through the issuance of a NWI proposal. The TC 130 Plenary approved a resolution at the September 2008 meeting.

The following title and scope were developed by WG 2:

Title: *Graphic technology — Colour data exchange using CxF*

Scope: *This international standard defines a data exchange conformance subset of CxF2 to exchange graphic technology measurement data and associated metadata. These conformance subsets do not include document content or image data but focus on colour, test and measurement data necessary to support graphic technology applications.*

The committee reviewed the areas identified as those needing conformance subsets, noting those already covered in ISO 28178, *Graphic technology — Exchange format for colour and process control data using XML or ASCII text*, and those that are not adequately addressed in ISO 28178 and needing further information to allow them to be addressed in ISO 17972.

Those fully defined in ISO 28178 are:

- scanner target characterization data (ISO 28178)
- characterization data sets (ISO 28178)
- target measurement data (ISO 28178)

Those requiring additional definition are:

- target definition
- substrate properties
- ICC profile container/pointer
- ICC profile data as XML data
- ink testing data (i.e. ISO 2846) beyond colorimetry
- press or proof acceptance/conformance data reports
 - ISO 12647-7 evaluation
 - ISO 12647-2, -3 OK sheet report
 - ISO 12647-2, -3 print run variation
- calibration data
 - plating TVI curves
- spot colour process aims
- measurement geometry/environment information for soft proofing data
- gloss measurement data and associated metadata

It was agreed that the next step is to look at the existing CxF definitions and identify which of the variables in CxF are required to support each of the target applications identified above that are not already addressed in ISO 28178.

It appears the committee needs to address two main issues, possibly requiring more than one ISO document:

1. the features of CxF2 that are allowed for exchange of graphic arts data,
2. a list of the things that are mandatory/optional for various application areas.

The concept of using name spaces was raised. It was felt that allowed name spaces could pull from a "master dictionary" to define an element. These name spaces could be shared by others developing standards, pulling from the same "master dictionary". However, it was noted that until it is clear what is to be accomplished using CxF, it is difficult to more clearly describe how name spaces would be used, or decide if this would be the best approach.

Action Item TAG-08-17: Kennedy, Iobst, and Cheydleur to prepare an example of the use of name spaces to be circulated to CGATS and USTAG by the end of January.

10h ISO 22028-4, *Photography and graphic technology — Extended colour encodings for digital image storage, manipulation and interchanges — Part 4: European Colour Initiative RGB colour image encoding (eciRGB (2008))*

TC 42/JWG23 is working on a standard color space definition called eciRGB. It is similar to AdobeRGB, but is based on D50, rather than D65, and the primaries are "slightly different." The work is at the working draft stage. Once it is in CD ballot, it will be circulated to the USTAG for review and comment. CGATS will see it via the USTAG TC130.

10i ISO 12646:2008 amendment to include US-requested changes

The U.S. requested that ISO 12646:2008, *Graphic technology — Displays for colour proofing — characteristics and viewing conditions*, be amended (see TC 130/WG 3 N 695 for details). At the fall meeting in Amsterdam, the proposal to move forward with an amendment was approved, and wording for the amendment was agreed upon. The proposal has not yet been circulated for TC 130 ballot.

10j Unified characterization data

There has been discussion about the possible development of an ISO Technical Report that provides a set of characterization data that is similar to that contained in TR 006 and that is universally acceptable.

U.S. GRACoL character data may be one piece of input, although it is possible the white point might change. FOGRA is looking at building a set of characterization data based on curve proposed by Dr. Bestmann. Jan Peters has also put forth a data set for consideration.

McDowell indicated he will explore the possibility of putting forth a proposed unified characterization data set for Grade 1 paper.

Kennedy stated that it is clear the users strongly support this move.

10k Ghent PDF Workgroup document on soft proofing ticket (TC130/WG2 N 1316)

At the last TC 130 WG 2 meeting, the Ghent Workgroup outlined a soft-proofing job ticket proposal to track information about an approval made using a monitor. The purpose would be to allow effective communication of metadata about a soft proof (e.g. who viewed the proof, under what conditions they viewed it, whether or not they approved the proof, etc.). This would be XMP data that resides inside a PDF file.

It was felt that this should be developed as an ISO standard that would interact with both ISO 12647-7 and the PDF/X standards.

It was suggested that 3.2.16.9 and 3.2.16.10 in the soft-proofing draft could be used as an example of how the name space proposal could work for CxF.

10l IFRA proposal on semi-commercial standard (TC130/WG2 N 1313)

IFRA has developed a proposal for a new print process standard for "semi-commercial" paper. It was noted that it is possible this work could become part of ISO 12647-3 (for newsprint), adding 3 semi-commercial paper types. A report on this proposal is TC130/WG2 N 1313.

The new print process standard is proposed to contain the following:

- Three types of paper
 - Newsprint 40-52 g/m²
 - SC 45-60 g/m²
 - LWC 57-70 g/m²
- Screens 50, 54 and 60 lines/cm
- Ink coverage 260% max.
- Dot gain 22%
- Grey balance C 50 / M 40 / Y 40

It was noted that many European newspapers are printed at commercial facilities. This opens up the capability of printing on stocks other than traditional newsprint, and helps to standardize this process. It was noted this is a recognized need in today's market.

It was agreed that the U.S. would support and participate in work in this area; however, they feel additional information is needed to evaluate this work.

Action Item TAG-08-18: McDowell will contact Manfred Werfel at IFRA to request further information about how the press testing was conducted, the colorimetric values used, numeric values, inks used, etc.

10m Proposal to develop PDF/X standard for packaging

McDowell reported at the TC171/SC2/WG8 meeting in Beijing focusing on additions to ISO 32000 (PDF), a question was raised about adding the capability for PDF to carry information re spot color. One of the proposals from Olaf Drümmer (Germany) was that there needs to be a way to carry spot color information and to carry enough information to "repurpose" spot color. Currently, a PDF/X file carries characterization data aims and profile information.

Currently in PDF/X, spot color is named color, and it is the originator's responsibility to identify the output intent. At issue is the best way to communicate information about the spot color so that it can be handled in various ways, such as reusing it in a different printing condition.

It was felt that there are also other issues in PDF/X that need to be addressed for packaging, such as user-defined dictionaries that can be turned off.

It was noted that this discussion was reported to CGATS primarily for information.

10n Systematic Review of ISO 12218:1997(2003)

Several ISO standards are currently undergoing systematic review, with the USTAG ballots closing October 16, and the ISO deadline being December 15. Richard Goodman submitted comments relating to the review of ISO 12218, *Graphic technology – Process control – Offset platemaking*, in which he proposed the development of an amendment to address CTP litho plate-making procedures. The amendment should include requirements on the set-up for laser plate-making, including requirements for power settings, linearizations, etc. It should also include a section on test methods and an annex on factors to consider when making this type of plate.

The standard was first issued in 1997, when most plates used were analog. Initially, one of the reasons this standard was developed was to address the problem of a large variation in the way plates were being exposed,

resulting in a large variation in dot gain. There is still no agreed-upon procedure for the measurement of the dot on the plate.

However, as technology has changed, it was questioned whether this standard should be revised to include requirements for CTP plates.

It was suggested there should at least be a recommended method for maintaining consistency.

It was agreed "something" needs to be done, and was suggested the best way to start might be the development of a Technical Report, since there is currently so much variability in the categories of plates.

It was agreed the U.S. should vote to reaffirm ISO 12218. Then, CGATS should initiate work under SC4 (Process Control) to develop a Technical Report to address recommendations for the use of CTP plates.

Action Item SC4-08-19: Goodman, Pope and Suffoletto will develop a rationale for a TR to address CTP plates and provide it to Abbott for balloting.

Action Item SC4-08-20: Abbott will ballot the proposal to develop a TR to address CTP plates.

10o Review recommendations from Seymour re XYZ TVI

At the last meeting, John Seymour was asked to recommend where in the ISO documents a definition of XYZ TVI should best be addressed. Seymour's response is contained in USTAG N 3135.

He suggested the formula for computing tone value from XYZ data given in ISO 12647-1 shows moderate agreement with tone values computed through status T density. He noted that Steve Viggiano published what he feels is a better formula. Seymour indicated his testing leads him to believe that the Viggiano transforms are better. He questioned whether this information should be added to ISO 12647-1.

One concern is that offering too many "solutions" may result in people using different means, resulting in differing outcomes, thus adding confusion rather than clarity.

It was also questioned whether it is better to use colorimetric tone value rather than densitometric tone value. It was noted that currently there are no tools that will smooth large amounts of spectral data to develop characterization data; however, it was argued that these tools are "coming" and ultimately will give better agreement.

Action Item TAG-08-21: McDowell will use the Viggiano method on the data for the IT8.7-4 target he was working with at the last meeting to confirm Seymour's findings. McDowell will report back to the committee.

11 Activity status reports

11a SWOP

At this week's meeting, the Print Properties Committee discussed whether or not to change the white point on the paper. They will continue to review this issue. If a decision is made to change the white point, the related Technical Reports will need to be reissued with new TR numbers.

11b SNAP

No report.

11c GRACoL

At this week's meeting the Print Properties Committee discussed whether or not to change the white point of the paper. They will continue to review this issue.

11d FTA

FTA reported there are different measurement techniques on gravure and anilox rolls. These techniques are not standardized. It was noted this work was at one time a new work item that had been dropped; there is the possibility of renewing the standards work.

Pope reported on two Flexo Quality Consortium (FQC) projects:

- How to specify ink volume of anilox rolls;
- G7 and development of characterization data sets for flexo printing on flexible material. Smiley reported the data should be in by next quarter.

11e IDEAlliance Print Properties Committee (PPC)

At this week's meeting, the following topics were among those discussed:

- changing the white point for SWOP and GRACoL paper
- G7 compliance levels
- digital press certification program
- proofing study about what people in the field actually do with proofs and the range of tolerances in the field
- monitor proofing and the possibility of tightening tolerances
- uncoated data set (FOGRA 28) and apply G7
- ΔE_{2000} vs. ΔE

11f Others

Goodman reported that TAGA will be held in New Orleans March 16-18, 2009. Seymour and Chung will be speaking.

12 Other business

No other business was identified.

13 Date and location of next meeting

The next IDEAlliance Print Properties Committee meeting will be held March 31 - April 1 in Chicago, IL

The next joint meeting of CGATS SC3, SC4 and USTAG/WG3, WG4 will be held April 2-3 in Chicago, IL.

14 Adjournment

There being no further business, the meeting was adjourned. The committee expressed their appreciation to RIT, especially Bob Chung and Bill Garno, for providing meeting space for the meetings.