

# COMMITTEE FOR GRAPHIC ARTS TECHNOLOGIES STANDARDS

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**CGATS/SC3 N 1118**  
**CGATS/SC4 N 1039**  
**USTAG/TC130 N 3423**

## DRAFT MINUTES

### JOINT MEETING CGATS SC3 – Metrology CGATS SC4 – Process Control USTAG to ISO TC 130 WG 3 and WG 4

FujiFilm Graphic Systems  
Hanover Park, IL  
April 2-3, 2009

#### 1 Call to order

The meeting was called to order at 9:00 a.m. by Ray Cheydleur, SC3 Chair. The following were in attendance and introduced themselves:

Ray Cheydleur, Chair SC3	X-rite
Dave McDowell, Chair USTAG	NPES
Mary Abbott, Secretary	NPES
Debbie Orf, Secretary	NPES
Victor Asseiceiro	GMG Americas
John Daugherty	NAPIM
John Iobst	NAA
Dianne Kennedy	IDEAlliance
Bruce Lanzerotti	Bridges Committee
Heath Leutkens	CGS
Lee Ornati	Mitsubishi Imaging
Dick Presley	Kodak
Danny Rich	Sun Chemical
Mike Rodriguez	RR Donnelley
Don Schroeder	Fujifilm
Larry Warter	Fujifilm / IDEAlliance

#### 2 Review agenda

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

– Discuss proposal to revise TR 002 to include data using a white backing as part of Item 12.

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 November 12-13, 2008 meeting, which had been distributed by e-mail prior to the meeting. The minutes were approved as distributed.

### 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
SC4-08-06	<b>Kennedy</b> 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.	Open
SC4-08-07	<b>Niles</b> will provide paper measurement data and measurement conditions to Smiley and Cheydleur.	See Agenda Item 11d
SC4-08-08	<b>Smiley</b> will get data sets from Rodriguez that have been slightly modified and provide them to Abbott for circulation to SC4.	Closed; Rodriguez noted that in this week's Print Properties meeting, it was decided to prepare new beta data sets for supercal, uncoated and newsprint, and updated beta sets for SWOP TR 003 and TR 005.
SC4-08-09	<b>Warter</b> 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.	Completed (SC4 N 1029)
SC4-08-10	<b>Ornati</b> will prepare measurement data for measurements taken using both self-backing and white backing, and provide it for the committee to review.	Open
SC4-08-11	<b>Pope</b> will report back to the committee on the FTA work relating to measurement of the color of printed material on film substrates.	See Agenda Item 9
SC4-08-12	<b>Seymour</b> to provide his data to the committee for further review.	Completed (SC4 N 1027)
SC4-08-13	<b>Smiley</b> to provide flexo Roadmap document to GAA.	Closed
SC3-08-14	<b>Abbott</b> to circulate CGATS characterization data set development white papers for review and discussion at the next meeting.	Completed (SC4 N 1030)
SC3-08-15	<b>Kennedy</b> to discuss with GAA a possible amendment/revision of TR 003, TR 005 and TR 006 to include recommendations for gravure publication printing; <b>Kennedy</b> to then make a proposal to CGATS for action.	Closed. See report in Item 12 of these minutes.
TAG-08-16	<b>Abbott</b> will ballot to SC3 the recommendation to make TF1 inactive.	Completed
TAG-08-17	<b>Kennedy, Iobst, and Cheydleur</b> to prepare an example of the use of name spaces to be circulated to CGATS and USTAG by the end of January.	See Agenda Item 14; in process - Open
SC4-08-18	<b>McDowell</b> 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.	Completed (SC4 N 1035)
SC4-08-19	<b>Goodman, Pope and Suffoletto</b> will develop a rationale for a TR to address CtP plates and provide it to Abbott for balloting.	Completed (SC4 N 1032)

AI #	Action Item	Status
SC4-08-20	<b>Abbott</b> will ballot the proposal to develop a TR to address CtP plates.	Per CGATS Procedures, the proposal was circulated to CGATS and CGATS SC4 for a 4-week comment period, closing 3/27. No comments were received. If the committee still wants to proceed, the NWIP will be balloted to CGATS SC4.
TAG-08-21	<b>McDowell</b> 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.	Completed (USTAG N 3252)

## 5 McDowell report on use of Viggiano method to compute TVI on data for IT8.7-3 target

At the last meeting, Seymour 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, which is a method to compute Status T density from colorimetric data. Seymour indicated his testing leads him to believe that the Viggiano transforms are better, and questioned whether this information should be added to ISO 12647-1.

McDowell reported he had reviewed the Viggiano paper and provided information on this method to the committee (see USTAG N 3252). He summarized the findings as follows:

- For the yellow ink scale both the tristimulus and Viggiano methods are essentially identical and have a maximum variation from the density computation of approximately -0.4 in TVI.
- For the magenta ink scale the Viggiano method shows better correlation with the density method than does the tristimulus method. The Viggiano method has a maximum variation from the density computation of approximately -0.1 in TVI, while the tristimulus method has a maximum variation from the density computation of approximately +0.6 in TVI.
- For the cyan ink scale the tristimulus method shows better correlation with the density method than does the Viggiano method. The tristimulus method has a maximum variation from the density computation of approximately 0.4 in TVI, while the Viggiano method has a maximum variation from the density computation of approximately +1.0 in TVI.

As a result, McDowell indicated that given the small differences in correlation, there is no compelling reason to change the methodology in using the colorimetric tone value method (with the cyan correction included) currently used in the ISO standards.

## 6 Discussion of relationships between paper color and characterization data sets

McDowell and Rodriguez noted that there is an issue concerning the point at which you need to change the data sets and at the point at which it is reasonable to give permission to change the data sets using the white point correction method.

The Print Properties Committee has developed beta data sets that are now being evaluated. These sets re-center the data around a specific paper white point. One question discussed was how to help people do this re-centering. The TR currently outlines one method, which appears to be sufficient.

Another issue is how much "adjustment" is allowed before the data can no longer be identified as conforming SWOP or GRACoL data. It was noted that validation tolerances need to be specified. These tolerances have not yet been identified. The Print Properties Committee is discussing a means to do this, such as publishing a set of tolerances for the IDEAlliance ISO 12647-7 control strip.

## **7 Discussion of how to handle issue of file header in national adoption of ISO 28178 as revision to CGATS.17**

At the July 2008 meeting, it was agreed that we should nationally adopt ISO 28178 (once it has been approved by ISO) as a revision to CGATS.17, retaining the CGATS.17 identification. It was also agreed that wording should be added to the national adoption that notes the issue of CGATS.17 vs. ISO 28178 in the file header.

4.2.2.1 of ISO 28178 states that the "first line in the ASCII format shall be ISO 28178". The issue is whether this will "break" any current implementations that have been built using CGATS.17 in the file header.

In the Introduction of ISO 28178, it is noted that the standard is based on CGATS.17, but there is nothing that indicates that a parser may be needed to handle either in the header. There is concern that new parsers may not be aware of legacy files with CGATS.17 in the header and will not be able to handle such files.

It was felt the national adoption should include an informative note to warn people that this document requires the first line of the header will be ISO 28178, not CGATS.17.

The committee developed the following wording to be inserted into the Introduction:

*Users of this document (CGATS.17-2009, an identical national adoption of ISO 28178:2009) are reminded that the earlier version of CGATS.17 used "CGATS17" as the first entry in the ASCII version of the file and as the data value for the XML keyword <standard>. This edition uses "ISO28178" in those entries (see 4.2.2.1 and 4.2.2.2).*

**Action Item SC3-09-01:** Abbott will ballot the identical national adoption of ISO 28178:2009 to CGATS SC3 as the revision of CGATS.17, retaining dual designation.

## **8 Status of CGATS/FTA TR 007**

### **Status of printing tests to develop characterization data set**

At the last meeting, it was agreed to await the insertion of the characterization data and the issuance of a new draft before reviewing the document in more detail. No additional information has been received.

## **9 Status of FTA work relating to measurement of the color of printed material on film substrate**

Bill Pope was unable to attend the meeting, but reported by e-mail that the work on backing materials for color measurement of transparent and translucent substrates is continuing. FTA is conducting another round of color measurements to help identify and isolate the sources of variation they have seen in the data from the first round of activity. He expects to have an update for the next meeting.

**10 Discussion of proposed experiment to determine correlation between backing correction methods**

**Review data from Seymour**

Discussion was deferred pending a review of the data by McDowell.

**Action Item SC4-09-02:** McDowell will review the data provided by Seymour from measurements of 16 different substrates printed during the same print run (SC4 N 1027).

**11 Discussion of CGATS Characterization Data Set Development White papers**

Three documents relating to the development of characterization data sets were issued by CGATS in 2003. These documents were *Press run guidelines*, *Procedure for color measurement system process control and inter-lab coordination* and *Analysis and reporting*.

The committee discussed whether it is time to update the three CGATS documents relating to characterization data set development. It was noted the method described in these documents applies to TR 001, but does not document the methods used in later characterization data sets represented in subsequent Technical Reports. It was agreed that when trying to develop a characterization data set for press characterization, there is a lot of information in these documents that would be useful. However, there is a need for a separate document that focuses on the characterization of an individual device.

As a result of discussion, the committee agreed the focus of the new document would differ significantly from the existing documents. They also agreed the new document should be in the form of guidelines and helpful hints, rather than an exhaustive procedure.

The committee felt the best way to start would be to develop a scope for the new document, and a list of the issues that should be addressed. They began by comparing the focus of the existing press run guidelines document with the perceived focus of the new document(s).

<b>Old</b>	<b>New</b>
Providing characterization data to match apriori aims for both external and internal control points (solids, TVI, etc.	Provide characterization of a specific printing device or group of devices.
Ink on paper, press centric	Process agnostic
Data preparation was for wide distribution	Data preparation for the process user (support use of ISO 10128) (facilitate open exchange)
Complete characterization data set (IT8.7/3 or IT8.7/4)	Complete or partial characterization (neutral, calibration scales, etc.)
Data variability	Device variability
Technical expert/group focused	Quality manager/technical operator focused

**Action Item SC3-09-03:** Cheydleur will prepare an initial draft of a document to address the characterization of printing devices for review at the July meeting.

**12 Report from Kennedy on possible revision of TR 003, TR 005 and TR 006 to include gravure**

Kennedy and Rodriguez reported that it has been determined that the data in these Technical Reports is adequate for publication gravure. Kennedy noted that GAA has no plans to develop data sets at this time. The question

was raised whether an editorial change should be made to the TRs to indicate this applicability. It was also noted there needs to be some consideration to the versioning of the TRs if they are revised (possibly as a result of review of the beta data sets). No final decision was made regarding the revision of the TRs at this time, pending the review of other issues relating to the review of new beta data sets being prepared by the Print Properties Committee.

#### **12a Proposal to revise TR 002 with an additional annex with characterization data over white backing**

Rich reported he had measured the 928 patches from the chart in ISO 12640-1 printed on newsprint using coldset ink and measured over white backing. As a result of discussion, it was recommended that either TR 002 be revised, or a new TR be developed to contain the characterization data obtained by measuring over white backing. It was agreed a recommendation would be made to the SNAP Committee to revise TR 002 adding the transformed characterization data measured over white, while retaining the data measured over black (unchanged) so as to ensure the ICC profiles built into TR 002 would not be impacted.

**Action Item SC4-09-04:** McDowell and Rich will prepare a draft of a proposed new annex that could be added to the existing TR 002 for review at the next meeting.

#### **13 DIS draft of ISO 13655 and its use as a revision to CGATS.5**

During discussion of ISO 13655 (see 16e), the committee discussed whether we feel ISO 13655, when completed, should be nationally adopted as a revision to CGATS.5.

It was agreed that following the ISO JWG8 meeting in Ft. Worth, Cheydleur (as chair of CGATS SC3) will confirm that any changes made to ISO/DIS 13655, as the result of the ballot comments review, do not result in incompatibilities with CGATS.5.

**Action Item SC3-09-05:** Following confirmation from Cheydleur in late May that any changes made to ISO/DIS 13655 as the result of the review of DIS ballot comments, Abbott will circulate ballot recommending the identical national adoption of ISO 13655 to SC3 as the revision to CGATS.5-2003.

#### **14 Discussion of X-Rite's new CxF v3 schema**

Cheydleur noted that there is not much to report at this time. He did discuss the move from using a single CxF file to having a CxF Resources file and a CxF “View” file that are similar to XML name space files. Iobst and Kennedy are working with the X-Rite team to provide feedback and samples for the ISO meeting in Fort Worth (Action Item TAG-08-17).

#### **15 Review status of AI SC4-08-19: Goodman, Pope and Suffoletto will develop a rationale for a TR to address CtP plates and provide to Abbott for balloting**

At the November 2008 meeting, it was noted that ISO 12218, *Graphic technology – Process control – Offset platemaking*, 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 the U.S. should vote to reaffirm ISO 12218 at this time. However, work should be initiated under SC4 (Process Control) to develop a Technical Report to address recommendations for computer-to-plate platemaking for offset plates.

Following the November meeting, Richard Goodman, Bill Pope and Joe Suffoletto provided a document (SC4 N 1032) outlining the rationale for this work. In accordance with CGATS procedures, Abbott circulated the document to the CGATS Parent Committee and to the members of CGATS SC4 for a 4-week review and comment period. No comments were received during this time. Abbott noted the next step is to ballot the proposed new work item to SC4; however, it was felt that before this is done, the committee needs to be sure there is agreement this work is needed, and that enough experts have been identified to actively participate in the develop of the document.

**Action Item SC4-09-06:** Abbott will contact Goodman, Pope and Suffoletto to determine if they are willing to actively participate in the development of a Technical Report addressing CtP platemaking and take the lead.

**Action Item SC4-09-07:** Schroeder will talk to appropriate persons in Fuji to determine if they are willing to participate in this CtP work.

## **16 Review of TC 130 work that may impact CGATS SC3 and SC4**

### **16a Report on information received from IFRA re proposal for a new print process standard (see AI TAG-08-18)**

McDowell noted that the IFRA report (see SC4 N 1035) does not provide any data to work with and appears to contain only "hypothetical" data.

At this point, it is felt discussion of this work should be delayed until it is further along since the data IFRA are working with is preliminary and still being tested.

Rodriguez voiced the concern that it is not known if this proposal may complement or conflict with existing print conditions described in ISO 12647-2. Under discussion was whether IFRA is wandering outside the conditions of 12647-3, and drifting into the realm of ISO 12647-2. It was felt the US TAG should send a note to IFRA asking for clarification on this point.

**Action Item TAG-09-08:** Daugherty, Rodriguez, Presley and Iobst will review the IFRA document relating to a proposal for a new print process standard and provide comments to McDowell by April 10.

**Action Item TAG-09-09:** McDowell will prepare a proposed inquiry relating to the IFRA proposal for a new print process standard to be sent to WG3 (with a copy to IFRA), relating to how this work is intended to be positioned relative to the ISO 12647 work.

## **16b Status of 28178**

It was noted that ISO 28178, *Graphic technology – Exchange format for colour and process control data using XML or ASCII text*, was initially published without the related data. This has now been corrected by ISO and they have reissued the standard in its entirety.

## **16c Available comments on ISO 5 series**

The ISO 5 series is currently in DIS ballot, and will close April 24. The US ballots have closed and the comments from the TAG to TC 130 and TAG to TC 42 have been consolidated. The proposed US comments were circulated for concurrence, and were then submitted to ANSI as part of the US vote to approve the DIS documents with comments.

McDowell noted that the title initially submitted had to be changed to remove "ISO" from the name of the title, at the insistence of the ISO Technical Editor. ISO proposed that the second element be "Spectral density measurements", and made that change without consulting the committee. It was suggested the US change the title to be "Photography and graphic technology — Density measurements — Part x...", and to edit the text within the document to change, "ISO standards status X density" to "ISO 5 standard status X density".

McDowell reviewed the other comments submitted by the U.S. on the four parts of the ISO 5 series.

## **16d Final draft of ISO 3664 and in particular Annex D**

McDowell noted there had been a couple of negative votes on ISO 3664, *Graphic technology and photography – Viewing conditions*, primarily due to the contents of Annex D. The concern is that someone following the CIE documents would not be able to perform logically the conformance testing for spectral power distribution.

There was extensive discussion relating to this concern, and the annex was modified to provide a "roadmap" to a method of validating their computations, including tables of data. One of the reasons for including the calculations in Annex D is that few of the other standards include this data, and in cases where it is provided, it is incorrect.

This standard is expected to be published soon. (*Secretary's note: The standard was published on April 15.*)

## **16e DIS Draft of ISO 13655.2**

McDowell reported that CGATS SC3 is considering potentially adopting ISO 13655 to revise or replace CGATS.5; therefore, we need to closely review this second DIS draft.

The US ballot on this second DIS closed March 20; the ISO ballot closes April 13. A copy of the proposed US comments had been provided to the US TAG by e-mail (USTAG N 3325), and were reviewed during the meeting. The proposed comments were edited as follows:

- US4: It was agreed the note is irrelevant here in light of US 3 which states the computation should be moved to an Annex. This will be moved to A.3 where computational method is shown. ISO 2471 will be added as a bibliographic reference.
- New: Delete the 3<sup>rd</sup> sentence of 4.2.2.1 and replace with the following: "M0 is provided to allow the identification of data measured using existing instrumentation or instrumentation optimized for photographic density measurements (see ISO 5.3)".

- US12: The proposed change was edited to read, "Modify the end of the first sentence to read "...that includes a specimen material with a high concentration of optical brighteners where the difference in CIEb\* measured with and without UV energy incident on the specimen material is greater than 3".
- US14: This comment was not accepted and was deleted. The comment was submitted by Presley, who was present at the meeting and agreed that the comment not go forward.
- New: editorial comment on 5.1 relating to the legend for equations, with a recommendation that the underscore in "reflectance\_factor" be removed.
- New: technical comment on 5.2, 3<sup>rd</sup> paragraph after equation 9: This is ambiguous wording and an incomplete definition. Revise to read as follows:
  - *Where the available data is at a bandwidth and wavelength interval other than 1 nm or 5 nm, values of the radiance spectrum for 5 nm intervals shall be calculated from the measurement values using one of the following steps:*
    - *If the available data is at a bandwidth and wavelength interval greater than 1 nm but less than 5 nm, values of the radiance spectrum at 5 nm intervals shall be calculated from the measurement values using the method of Annex I.*
    - *If the available data is at a bandwidth and wavelength interval greater than 5 nm but less than or equal to 10 nm, data interpolation shall be performed to provide values of the radiance spectrum at 5 nm intervals using one of the interpolations procedures of CIE 15.*
- New: technical comment on A.5 there is an error in the designation of the geometry. Recommended changing "45:0" to "0°:45°".

The attendees agreed that the comments as edited will be submitted to ANSI with a recommendation to vote "affirmative with comments."

The committee discussed whether we feel ISO 13655, when completed, should be nationally adopted as a revision to CGATS.5 (See Agenda Item 13 earlier in these minutes).

## **16f ISO 15076 (ICC Spec) and proposed ICC action**

The ICC Specification is undergoing revision. The process includes bringing the ICC Specification into conformance with the ISO formatting/nomenclature requirements and making technical corrections to the document. McDowell reported the ICC noted several problems that were addressed at the last meeting. Eight ICC-approved specification changes were added to the document. The ICC feels the revised specification is now ready to be submitted for ICC ballot and for ISO/DIS ballot (allowable through a previous TC 130 Resolution).

It was noted JWG7 has been reactivated and anyone interested in actively participating should contact the US TAG administrator, Mary Abbott or Debbie Orf, to get their name added to the ISO Global Directory as a U.S. Technical Expert to this committee.

## **16g ISO 12637-3, FDIS Vocabulary – Printing Terms**

The US approved the FDIS ballot, even though there were some concerns from a TAG member, who agreed the US should vote to approve, but who will participate on WG1 to promote a revision of the standard.

## **16h ISO 12640-4, DIS Adobe RGB SCID**

Presley commented that the S2 strip widths of the colour vignettes are too narrow, and that a 1" width would be preferable. He will submit this comment as part of his ballot response.

The TAG ballot closes April 10; the ISO ballot closes June 12.

## **16i ISO 12646 AMD1 Soft proofing changes requested by US**

The US voted to approve with no comments the NWI and CD ballot of the proposed amendment to ISO 12646, *Graphic technology – Displays for colour proofing – Characteristics and viewing conditions*. McDowell noted that this amendment was initiated by the US.

The proposed amendment impacts clauses 4.4 and 4.10. The change to clause 4.4 recognizes the reality that monitor performance and measurement varies with signal level (luminance level). The change to 4.10 simply substitutes CIE 2000 for CIE 1976 as the metric for DeltaE (and changes tolerance accordingly) because recent experience shows a much better correlation of CIE 2000 DeltaE and subjective evaluation.

## **16j Discuss US position and suggestions re potential "digital printing" standard**

ISO 12647-7 (off-press proofing processes working directly from digital data) was balloted and comments were addressed at the September 2008 TC 130 WG 3 meeting. At that time there was also discussion about the need for a part of the document to address validation proofing (or concept proofing). It was agreed to finalize ISO 12647-7, and then begin an immediate revision.

After discussion, TC 130 WG 3 decided not to revise Part 7 again, but to develop a new Part 8. This now creates the situation of having a Part 7 which is no longer acceptable to the US and which will not undergo immediate revision; while there is a proposal that the new Part 8 addresses this second class of proofing as well as digital printing.

Warter, as the document editor for Part 8, has prepared a draft document that includes comments made to ISO 12647-7.2 that were accepted. His draft addresses the missing issues that the US feels are critical to be addressed and included. The US TAG feels that Part 8 should be reserved for validation proofing. Digital printing should be addressed in a separate document that would apply to larger format, higher-production web printing equipment.

It was suggested that the US send a letter to TC 130 WG 3 indicating the US is preparing a proposed new work item to develop a standard addressing digital printing.

It was agreed there is now a need to identify someone who is willing to take the lead on developing a draft document for digital printing that could be forwarded to TC 130 as a new work item proposal. The committee discussed the possibility of putting together a task force to draft the document.

**Action Item TAG-09-10:** McDowell will contact those at the meeting who expressed possible interest in this work, as well as others on the committee who may be interested, but who were not at the meeting.

## **17 Status of systematic review items**

### **17a ISO 15930-4 Systematic Review (PDF/X-1a)**

The US voted to reaffirm ISO 15930-4:2003, *Graphic technology – Prepress digital data exchange using PDF – Part 4: Complete exchange of CMYK and spot colour printing data using PDF 1.4 (PDF/X-1a)*.

### **17b ISO 15930-5 Systematic Review (PDF/X-2)**

The US voted to withdraw ISO 15930-5:2003, *Graphic technology – Prepress digital data exchange using PDF – Part 5: Partial exchange of printing data using PDF 1.4 (PDF/X-2)*, since it is believed that this standard has never been implemented, there are no known implementations under preparation, and it will essentially be replaced by ISO 16612-2 (PDF/VT) which is currently under development (see USTAG/TC130 N 3268).

### **17c ISO 15930-6 Systematic Review (PDF/X-3)**

The US voted to reaffirm ISO 15930-6:2003, *Graphic technology – Prepress digital data exchange using PDF – Part 6: Complete exchange of printing data suitable for colour-managed workflows using PDF 1.4 (PDF/X-3)*.

### **17d ISO 12642-1 Systematic Review (IT8.7/3)**

The Systematic Review of ISO 12642-1, *Graphic technology – Prepress digital data exchange – Input data for characterization of 4-colour process printing*, is currently in ballot. The US ballot is due April 17; the ISO ballot closes June 15.

It is recommended this be reaffirmed, since this target is being widely used and should not be changed.

### **17e ISO 12642-2 Systematic Review (IT8.7/4)**

The Systematic Review of ISO 12642-2:2006 *Graphic technology – Input data for characterization of 4-colour process printing – Part 2: Expanded data set*, is currently in ballot. The US ballot is due April 27; the ISO ballot closes June 15.

It is recommended this be reaffirmed, since this target is being widely used and should not be changed.

### **17f Systematic Review of ISO 12647-4:2005**

In response to the Systematic Review of ISO 12647-4:2005, *Graphic technology – Process control for the production of half-tone colour separations, proof and production prints: Part 4: Publication gravure printing*, the US recommended the ISO standard be revised. The colorimetric values of papers, and of primary and secondary solids, need to be re-evaluated with respect to inks in common use. The hue of cyan appears to be too red, and saturation of coated solids is somewhat optimistic, while saturation of SC solids is somewhat pessimistic. Also, in the present version of ISO 12647-4, Note 2 of A.1 states, "A definition of the ink set for gamut type 2 is planned to be included in a future revision of ISO 2846-3." This has not been done and the inks necessary to achieve gamut type 2 are undefined. Therefore, gamut type 2 should be removed from the standard as it is an incomplete definition and therefore inappropriate for an International Standard.

### **17g Systematic Review of ISO 12647-6**

The Systematic Review of ISO 12647-6:2006, *Graphic technology – Process control for the production of half-tone colour separations, proofs and production prints – Part 6: Flexographic printing*, is currently in ballot. The US ballot closes April 17; the ISO ballot closes June 15.

### **17h Systematic Review of ISO 11084-2**

The Systematic Review of ISO 11084-2:2006, *Graphic technology – Register systems for photographic materials, foils and paper – Part 2: Register pin systems for plate making*, is currently in ballot. The US ballot closes April 17; the ISO ballot closes June 15.

### **17i Systematic Review of ISO 12637-1**

The Systematic Review of ISO 12637-1:2006 *Graphic technology – Vocabulary – Part 1: Fundamental Terms*, is currently in ballot. The US ballot closes April 17; the ISO ballot closes June 15.

### **17j Systematic Review of ISO 2834-1**

The Systematic Review of ISO 2834-1:2006 *Graphic technology – Laboratory preparation of test prints – Part 1: Paste inks*, is currently in ballot. The US ballot closes April 17; the ISO ballot closes June 15.

### **17k Systematic Review of ISO 2846-1:2006**

The Systematic Review of ISO 2846-1:2006, *Graphic technology – Colour and transparency of printing ink sets for four-colour printing – Part 1: Sheet-fed and heat-set web offset lithographic printing*, is currently in ballot. The US ballot closes April 17; the ISO ballot closes June 15.

There was discussion on revising this standard based on difficulties encountered when printing to ISO 12647-2. It was suggested there needs to be better correlation between ISO 2846-1 and ISO 12647-2 relating to ink values. The values may require a closer look to determine if they are still correct.

## **18 Activity status reports**

### **18a SWOP**

The last SWOP meeting was held at the Proofing Summit in NY. The committee is looking at getting the value from SWOP and getting more new people involved. SWOP is focusing on best practices for proofing, and they are developing webinars on this topic. The SWOP booklet was last published in 2007 and is available on the SWOP website.

### **18b SNAP**

Nothing to report

### **18c 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.

### **18d FTA**

Pope noted by e-mail that FTA is still working on backing material and that there is high interest in revising the target values for the colorimetric specification for process colors as they pertain to ISO 2846-5 and ISO 12647-6 for flexo printing. There is an ongoing debate on what the target values should be. There is a strong contingency lobbying for 12647-2/Grade 1 colorimetric values – in essence, having ONE target regardless of process or substrate. While it is acknowledged that both substrates and pigment selection/availability impact this, the change in thinking is to have one set of target values, then specify deviations from those values differently than in the past. Some feel that specifying the hue angle and maximizing chroma is the way to go. The question is what the actual tolerance values should be.

### **18e IDEAlliance Print Properties Committee (PPC)**

The Print Properties Committee was covered during other discussions documented during this meeting. (See SC4-08-08, Item 6, Item 11c)

### **19 Other business**

No other business was identified.

### **20 Date and location of next meeting**

The next joint meeting of CGATS SC3, SC4 and USTAG/WG3 and WG4 will be held July 29-30 at X-Rite in Grand Rapids, Michigan. The next IDEAlliance Print Properties Committee meeting will be held July 27-28 at the same facility.

### **21 Adjournment**

There being no further business, the meeting was adjourned. The committee expressed their appreciation to FujiFilm, especially Don Schroeder, for providing meeting space for the meetings and Heath Leutkens for providing an internet connection.