



[ISO/TC 130](#)

Graphic technology

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Secretariat: DIN

Minutes WG4 Beijing

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Expected action Info

Source ISO/TC 130 (ISO/TC 130/WG 4)

Minutes of the 38th meeting of ISO TC 130 WG4 "Media and Materials", 2009-09-21 in Beijing, China

1 Opening of the meeting

The meeting was started at 09:10 by Convenor Uwe Bertholdt. All efforts of the Chinese-delegation to host the meeting in Beijing are highly appreciated and thanked for.

2 Roll call of delegates

The experts introduced themselves and the list of attendees is attached to this document.

3 Approval of the agenda

The agenda (document N 530) was approved without changes

4 Approval of the minutes of last meeting

The minutes (document N 516) were approved without changes

5 Action items from the last meeting

The action items of the last meetings (document N 517) were resolved as follows:

Action nr	By	Action	Comment/Open/Closed
08-05	Bertholdt	Revise WD Chemical Ghosting	open
09-01	Rich	to prepare NWIP of ISO 2846-5 for review by fall meetings.	open
09-02	Battrick	to provide report on a survey of the gravure industry on the methods of assessment of cylinder diameters.	closed
09-03	Barros	to prepare a draft standard on sleeve diameter determination for presentation as a NWIP to be presented to Plenary meeting in the fall	closed
09-04	Bertholdt	to prepare a document ISO 2846-3rev. containing data for the ink set for gamut II	open
09-05	Bertholdt	to draft a resolution for plenary to withdraw ISO 15994	closed (26 Sept. 2009)
09-06	Bertholdt; Winkelmann	to identify the editor of ISO 12636 and ask if he/she will consent to adding the new informative Annex	closed

6 Identification of new documents

No new documents were identified.

7 Report of the convenor on activities since the last meeting

Uwe Bertholdt informed the group about the passing by of John Davison shortly after the Ft. Worth meeting and highlighted his participation in the work of the group. All experts honoured John by keeping silence for a minute.

The convenor informed about the results of the systematic reviews on ISO 2834-1 (confirmed), ISO 2846-1 (Japanese wish for review) and ISO 11084-2 (Thai wish to review) and pointed to the corresponding parts of the agenda for further discussions.

Uwe Bertholdt informed the experts that the German paper manufacturer Scheufelen announced the termination of the delivery of APCO II/II the testing substrate for the ISO 2846

series of standards and stated that at Fogra, IGT and Scheufelen still is quite a large amount of APCO II/II in stock. Wilco de Groot confirmed the existence of APCO II/II stocks at IGT but denied the stock at Scheufelen. The issue was further discussed under 9.1.

8 Projects

8.1 ISO/WD 12705 Graphic technology – Laboratory method for Chemical Ghosting

The WD has been accepted in 2008 but critiqued with respect of its visual evaluation. Fogra was working on a measurement procedure for evaluation and Uwe Bertholdt presented recent results (N 541). For the moment a optical evaluation of the different magnitudes of chemical ghosting seems to be impossible. David McDowell questions the necessity for a distinction of different levels of chemical ghosting since the visual detection results in a quality problem anyhow. Uwe Bertholdt stated that for purposes of material developments (ink and paper) and the identification of appropriate perfecting and finishing times a detailed evaluation is very helpful to identify the direction of changes.

Masaaki Matsuo gave a presentation about Japanese investigation using the method of ISO WD 12705 (document N 538). It showed also very weak colour differences between ghosting and non-ghosting areas and a significant paper influence but also an influence of the ink.

Uwe Bertholdt outlined that at the beginning the development of the Standard focused on both the description of the test procedure and the evaluation method. He announced to proceed with the preparation of the document without a evaluation method. This was questioned by Wilco de Groot with the argument that a procedure without valid evaluation is not meeting the requirements of an international standard. Mary-Lou Prelapat informed the experts about other publication documents of ISO namely Technical Specifications (TS), Public Available Specifications (PAS) and Technical Reports (TR). Uwe Bertholdt proposed to change the track of the project to a Technical Report.

Gallus Hossli asked the present experts about the frequency of the occurrence of chemical ghosting and got the answer of several cases for Toyo Ink per year and a constant low level occurrence in Germany from Fogra.

In light of this background the question arose whether or not this document is of relevance. The outcome of a straw poll among the experts showed controversial opinions. About halve of the experts voted for project termination and halve for proceeding as a Technical Report.

Uwe Bertholdt took the **action item 09-07** to prepare a resolution to change the track of ISO WD 12705 from International Standard to Technical Report.

8.2 Swedish proposal for NWIP: Method for high precision measurement of sleeves critical dimensions

A document to be attached on a NWIP-vote was prepared by Gustavo Barros (document N 532).

The discussion started with the question whether the measurement procedure described is affecting and possibly interfering with methods of the gravure printing industry (document N 534). This was denied by Mr. Barros in the light of the fact that the devices used in the gravure industry are for hard cylinders and of a mass too large to allow for the use on flexographic sleeves.

Gustavo Barros outlined changes to the design of the test equipment (lowering of the centre of gravity) to be incorporated into the document prior to the start of the NWIP-vote. The specific description of the device originated the question of the intellectual rights of the design. Mr. Barros ensured the freeness of use of the design for each purchaser of the later Standard. David McDowell asked for the possibility to describe the device by means of general requirements e.g. forces and their direction. This was agreed by Mr. Barros and in addition he argued that each mechanical shop would be able to build a measurement device on the basis of the set of drawings delivered. But Mr. Barros will check whether a more general description is possible.

Uwe Bertholdt rose the question about the transfer of the present requirements into the scope to allow possible users a quick identification of the right part of a possible multipart document.

As an alternative it was discussed to have a document on measurements of radii of printing cylinders with different annexes for different fields of application. This was agreed upon among the experts. David McDowell proposed to have a resolution on the plenary meeting to officially start the project as a Preliminary Work Item (Stage 00) and also found agreement on this.

The question of Uwe Bertholdt concerning the cope of sleeves with compressible, flexible and tacky surfaces was answered by Gustavo Barros that these may also be dealt with in different annexes. Uwe Bertholdt gave Gustavo Barros some additional editorial comments.

Gustavo Barros took the **action item 09-08** to prepare a new document to incorporate the discussed changes.

8.3 ISO 2846-3 Graphic technology – Colour and transparency of printing ink sets for four colour printing – Part 3: Gravure printing

Uwe Bertholdt informed the experts that the data presented in Ft. Worth (ink set for gamut 2) were identified to be incomplete with respect to the requirements for the evaluation of transparency and since no additional data were provided no document was prepared.

8.4 ISO 2846-5, Graphic technology – Colour and transparency of printing ink sets for four colour printing – Part 5: flexographic printing

Uwe Bertholdt informed the experts that Danny Rich as the editor of this project (not present) gave the information of new activities in the US for a development of a data set for colour coordinates for four colour flexographic printing. He will come back to WG 4 after the completion of the work in the US.

9 Future projects

9.1 ISO 2846-1 Graphic technology – Colour and transparency of printing ink sets for four colour printing – Part 1: Sheet-fed and heat-set web offset lithographic printing

Matsuo Masaaki presented Japanese reasons for the desire to revise ISO 2846-1 (documents N 526 und N 536). Main reasons are the review of the current state of the colour coordinates and the wish to widen the possible range of testing papers. Mr. Masaaki presented two different Japanese papers to be used additionally within ISO 2846-1.

Uwe Bertholdt questioned a new screen of colour coordinates since it was very difficult to achieve international agreement on the data during the first development of the standard and his opinion that the data are at least for Europe still valid.

Uwe Bertholdt informed the group about his preference of a change to colourimetric evaluation using measurement condition M2 of ISO 13655. A telephone/e-Mail contact with Danny Rich during the preparation of the meeting brought the US preference to use "BYCO-Charts" from Byk-Gardner produced with high consistency and without OBAs but being coated. Uwe Bertholdt presented series of test prints of a yellow ink prepared on both APCO II/II and BYCOChart 2812. Prints on BYCOChart showed picking at low ink film thicknesses, significant longer drying times and a significant higher gloss level. The colourimetric evaluation showed differences of the yellow colour on both substrates at constant ink thickness. Therefore it seems to be inappropriate to change to BYKOChart as an universal substrate. Wilco de Groot mentioned the occurrence of batch to batch inconsistencies for both APCO and BYCOChart. Gallus Hossli rose the question of identifying a specialist paper supplier for test paper production but most experts felt uncomfortable with this solution and Uwe Bertholdt informed the group of the difficulties of the APCO II/II production reported from Scheufelen probably discouraging possible successors.

Gallus Hossli also proposed not to feel restricted to the use of paper as a test substrate. Uwe Bertholdt answered that a wider variety of substrates should be considered but that there are probably certain limitations with respect to the substrate since solely setting inks should also be testable.

David MacDowell favoured the use of UV-filter colour measurements which found acceptance among the experts. Uwe Bertholdt stated that a further possibility to use the stocks of APCO would be preferable.

Uwe Bertholdt volunteered to apply for a research grant to investigate possible APCO alternatives which was appreciated. The study should incorporate at least inks from North America, Japan and Europe.

9.2 Open documents under Systematic Review in 2008:

- ISO 12636:1998 Graphic technology – Blankets for offset printing ([N 500](#))

Matsuo Masaaki presented the Japanese comments to revise the standard (N 537). Main issues are the lack of the information within ISO 12636 with respect of different swelling behaviour of oxidative/setting inks and UV inks and the just single point evaluations for the compression of blankets instead of multipoint evaluations. Uwe Bertholdt supported the necessity of multipoint evaluation in presenting a test protocol of a German blanket manufacturer showing nonlinear behaviour of blankets during compression.

David McDowell proposed that the Japanese delegation should develop a possible new ISO 12636 document with highlighting the desired changes. This proposal was supported by the experts present and **action item 09-09** was given to Matsuo Masaaki to develop such a document.

For the resolution of the open systematic review a further confirmation will be requested by resolution at the plenary meeting.

- ISO 2846-1 (see 9.1; [N 526](#))

In the light of the time to be necessary to develop content to replace the use of APCO II/III a resolution confirming this standard was agreed upon.

- ISO 11084-2 Graphic technology - Register systems for photographic materials, foils and paper - Part 2: Register pin systems for plate making ([N 527](#))

The Thai delegation during the systematic review requested the incorporation of CTP plates into the scope of the standard. In the understanding of other experts the scope of ISO 11084-2 is brought and in principle always includes CTP plates. The confirmation of the standard by plenary resolution was therefore requested.

10 Requirements concerning a subsequent meeting

For the spring meeting week of ISO TC 130 1 day will be requested.

11 Any other business

During the WG 3 meeting in Ft. Worth in May 2009 it was decided to transfer the development requirements for proofing papers presently occurring in ISO 12647-7 to WG 4. France prepared a NWIP "Proof to print papers" (N 533) which was also orally presented by Luc Lanat.

David McDowell suggested to develop a document "evaluation of fluorescence, colour and gloss" since not only the comparison between proof and production stocks but also within different proof and production substrates should be addressed. It was also discussed if the document should also contain a certain categorization. Luc Lanat highlighted the requirement of a close match in fluorescence between proof and production papers. In addition surface properties should be considered. Luc Lanat took the **action item 09-10** to prepare a draft

document "Communication of optical and surface properties of printing substrates (e.g. fluorescence, gloss and colour".

It was proposed to request the plenary meeting for a resolution to start such a project as a Preliminary Work Item (Stage 00)

The discussion of the request of CEPI CTS for a A-Liaison (document N 529) was postponed to the plenary meeting for lack of time.

Uwe Bertholdt closed the meeting at 12.20 p.m.

List of open action items after Beijing 2009-09-27

Action nr	By	Action	Comment/Open/Closed
08-05	Bertholdt	Revise WD Chemical Ghosting	
09-01	Rich	to prepare NWIP of ISO 2846-5 for review by fall meetings.	
09-04	Bertholdt	to prepare a document ISO 2846-3rev. containing data for the ink set for gamut II	
09-07	Bertholdt	to prepare a resolution to change the track of ISO WD 12705 from IS to TR	closed 26. Sept. 2009
09-08	Barros	to update the draft standard on determination of Radii of printing cylinders	
09-09	Matsuo	to prepare a Standard document highlighting the intended Japanese changes in the document ISO 12636	
09-10	Lanat	to prepare a document "Communication of optical and surface properties of printing substrates (e.g. fluorescence, gloss and colour"	



Please give your Signature
and return to
Karin

ISO/TC 130/WG 4 Media and materials

Attendance List

Meeting of ISO/TC 130/WG 4 on 2009-09-21, Beijing, China

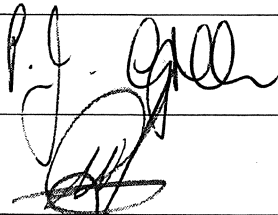


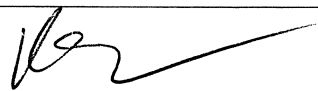
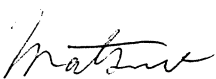


Name	Country	Signature
Bertholdt, Uwe Dr.	DE	
Winkelmann, Karin Dipl.-Ing.	DE	<i>K. Winkelmann</i>
Abbott, Mary	US	
Barros, Gustavo Gil	SE	<i>Gustavo Gil</i>
Bohan, Mark	US	
Carnelli, Carlo	IT	
Cheydleur, Raymond	US	
Claypole, Tim C. Dr.	GB	
Coleman, James E.	US	
da Costa P. N. da Luz, Maira	BR	
Daugherty, John	US	
Davison, J. W.	GB	
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Horii, Mamoru	JP	
Katemake, Pichayada Dr.	TH	
Koopipat, Chawan Dr.	TH	
Kraushaar, Andreas	DE	
Luetkens, Heath	US	
Matsuo, Masaaki	JP	
McDowell, David Q.	US	
Meinecke, Karl M.	DE	
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Rangel, Rose	BR	
Rich, Danny Dr.	US	
Rupyshev, Viktor	RU	
Ruttanasirimaneevate, Prajak	TH	
Schaul, Ronald Professor	DE	
Smiley, Steve	US	
Soares Stucchi, Aparecida	BR	
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van Middelkoop, Kees	NL	
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Widmer, Erwin	CH	<i>E. Widmer</i>
Zawacki, Walter F.	US	
Zhiyong, Ma	CN	
Jordan, Byron Dr.	CA	
Battrick, George	DE	
Beckmann, Beatrix	DE	
Thees, Roland Dipl.-Wirt.-Ing.	DE	
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HOSLI GALLUS	DE	<i>h. gallus</i>



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Hitoshi Urabe	JP	
PELAPRAT Mary Lou	ISO/CS	
Wischhofer Cord	DIN/Scadanist	
Victor Asseiceiro	US	

