



ISO/TC130/WG4 N 570

ISO/TC 130 N 1641

[ISO/TC 130](#)

Graphic technology

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Secretariat: DIN

WG4 N570 Minutes 39-meeting StGallen 10-04-23

Date of document	2010-04-28
Expected action	Info
Source	ISO/TC 130 (ISO/TC 130/WG 4)

Minutes for the 39th meeting of ISO TC 130 WG4 "Media and Materials", 2010-04-23 in St. Gallen, Switzerland

1 Opening of the meeting

The meeting was opened by the convenor at 09:00. He has welcomed all experts in the meeting at EMPA in St. Gallen and informed the attendees that the meeting will be held additionally in remote stage. All experts not being able to attend the meeting in person are invited to share the meeting by Webinar. The contact details were distributed to all WG 4 members.

2 Roll call of delegates

A roll call of participants was made.

For the list of attendance see annex 1.

The following experts/observer participate via Webinar:

Tim Claypole (UK), Phil Green (UK), Danny Rich (US), Joe Fazzi (US), Heath Luetkens (US), Andy Kraushaar (DE), Bruno Mortara (BR), Larry Warter (US), Rick Presley (US), Dave McDowell (US), Masaaki Matsuo (JP).

3 Approval of the agenda

approved

**4 Approval of the minutes of last meeting
(N 539)**

approved

**5 Action items from the last meeting
(N 540)**

All action items closed; exception 09-08

6 Identification of new documents

WG 4 N 555 to N 564; Further inputs could only be considered when the presenter was attendant. Otherwise postponed to the Meeting in Sao Paulo.

7 Report of the convenor on activities since the last meeting

View to the ongoing Systematic review, see N 9.3

8 Projects**8.1 ISO/TR 12705** Graphic technology – Laboratory method for Chemical Ghosting (N555)

There were no comments on the revised document. Uwe Bertholdt informed the group about his intention to finally vote this document during the plenary meeting in Sao Paulo.

8.2 ISO/PWI 15341 Measurement system for radii of printing cylinders

Gustavo Barros gave his presentation (N561). Two new prototypes were produced and tested. They proved to work very well. Wilco deGroot suggested to test the new designs with respect to

twisting during a few month time and fears that twisting will occur and might influence the measurement. The principle design of the standard document will contain a description of the general principle and Annexes dealing with specific designs for specific printing cylinders. Gustavo Barros will prepare a working draft by end of August to be discussed during the meeting in Sao Paulo.

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

Uwe Bertholdt gave a presentation (N559) on ink data for gamut 1 and gamut 2 according to ISO 12647-4. Test prints on APCO were performed at Flint in Frankfurt (Germany) and evaluated at Fogra. There was the intention of the German ink manufacturer supported by Danny Rich to change the description of the colour requirements for ISO 2846-3 from a single point definition to a definition of a track in colour space. Data for the gamut 2 are now available. The German data for gamut 1 showed an offset to the data already present in ISO 2846-3! Therefore Danny Rich (USA) and Masaaki Matsuo (Japan) were asked to check the German data with their local ink manufacturers and report to the next meeting

Uwe Bertholdt informed about the occurrence of different extenders for gravure inks. Besides the “classic” very transparent extenders filler containing and not as transparent extenders are used for inks to be printed on news paper or improved news paper. In general investigations of ink sets showed inconsistencies in the old method of determination of transparency in the ISO 2846 series. Uwe Bertholdt announced further details to be presented in 9.2.

Action Item 10-01 Matsuo/Rich/Claypole to check the data of their markets or to deliver new data comparable to the presentation from U. Bertholdt (N 559)

Action Item 10-02 Bertholdt to deliver data for filmthickness of testprints and test printing conditions (ISO 2846-3) and to prepare a document ISO 2846-3

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

Danny Rich presents the new document proposed for possible revision (N562). Data for solvent based and electron beam cured inks are still to be determined.

Action Item 10-03 Rich to provide an updated document for ISO 2846-5 at the beginning of September 2010

Action Item 10-04 Carnelli to provide data as additional input from Italy for ISO 2846-5 by end of June to be incorporate by D.Rich (AI 10-03)

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

Danny Rich presented data of a study at Sun Chemical (N563) showing a significant influence of electron beam curing on the ink and paper colours during conformance testing according to ISO 2846-1.

Action Item 10-05 Rich to elaborate a solution for the problems related to the ink curing using electron beams in conjunction to ISO 2846 series of standards

Colour measurement data from Masaaki Matsuo (N558) using different papers and different measuring modes of ISO 13655 were presented. It is the intention of the presentation to allow for ink testing within ISO 2846-1 to also use papers with optical brighteners and to use the M1 measurement condition of ISO 13655 (N565, N566). Uwe Bertholdt stated his intention to conduct a study of APCO replacement substrates and to use measurement condition M2 of ISO 13655. There is still no ISO 13655 compatible colour measurement device for measurement condition M1 available on the market.

ISO/PWI 15397 Communication of optical and surface properties of printing substrates (e.g. fluorescence, gloss, colour)

Luc Lanat gave two presentations (N567, N568). The new document is based on the joint German "Papierkennwerte" initiative from the Association of German Paper Manufacturers (VdP) and the German Engineering Association (VDMA) and in addition lists useful properties of proof papers. It will also give information on ISO-Standards of TC6 to obtain the data.

Action Item 10-06 Lanat to prepare a new document ISO WD 15397 to be accompanied by a NWIP vote by the end of May.

9.2 Systematic Reviews in 2010:

- ISO 12636:1998 Graphic technology – Blankets for offset printing

Masaaki Matsuo prepared a document showing the Japanese proposal for a revised ISO 12636 (N569). The document was provided during the meeting and there was no time for preparation for the other participants. The experts of WG 4 were asked to be prepared to discuss the issue during the Sao Paulo meeting.

- ISO 2846-2:2007 Graphic technology – Colour and transparency of printing ink sets for four-colour printing – Part 2: Coldset offset lithographic printing

Information about the ongoing revision was given.

- ISO 2846-4:2007 Graphic technology – Colour and transparency of printing ink sets for four colour printing – Part 4: Screen Printing

Uwe Bertholdt presented recent results from Fogra (N564) giving ink data for a second ink set for light fast inks to be used for outdoor applications. Five ink sets of solvent and five UV ink sets were investigated on APCO. Suggestions were given with respect to the requirements of those additional inks (primary yellow and magenta).

The transparency data evaluated showed behaviour in contrast to former expectations. The slope of regression lines connecting colour differences of original and overprinted blacks seems not to represent the transparency properly in all cases. The were steeper sloped lines (original worthier transparency) having overall smaller colour differences (between original and overprinted blacks) than almost levelled lines (original better transparency) having larger colour differences (between original and overprinted blacks). Uwe Bertholdt therefore opted for additional or new requirements concerning transparency valuations of inks and was supported by Danny Rich.

David McDowell gave the information of an increased interest of the American Screen Printers Association in ISO 2846-4 and announced new data for the Sao Paulo meetings.

- ISO 2834-2:2007 Graphic technology – Laboratory preparation of test prints — Part 2: Liquid printing inks

Information about the ongoing revision was given.

10 Requirements concerning a subsequent meeting

One day for Sao Paulo is required.

10 Any other business

Wilco deGroot informed the experts on a general basis about inconsistencies within ISO 12634 dealing with tack-measurement using tack-meters. He was asked to prepare a presentation of possible improvements within the document.

Action Item 10-07 deGroot to give a presentation on technical inconsistencies in ISO 12634

The meeting was closed at 03.00 pm by the convenor.

List of open action items after St. Gallen 2010-04-23


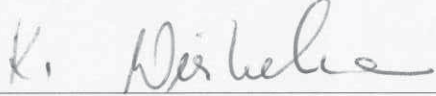


Action nr	By	Action	Comment /Open/Closed
09-08	Barros	to update the draft standard on determination of Radii of printing cylinders	
10-01	Matsuo/D.Rich/ Tim Claypole	to check the data of their markets or to deliver new data Comparable to the presentation from U. Bertholdt (N 559) (ISO 2846-3)	
10-02	Bertholdt	to deliver data for filmthickness of testprints and printing test print conditions (ISO 2846-3)	
10-03	D.Rich	to provided an updated document for ISO 2846-5 at the beginning of September 2010	
10-04	Carnelli	to provide data as additional input by Italy for ISO 2846-5 by end of June 2010 to be incorporate by D.Rich (see AI 10-03)	
10-05	D.Rich	to elaborate a solution for the problems related to the ink curing using electron beams in conjunction with ISO 2846 series of standards	
10-06	Luc Lanat	to present a document to be accompanied to the NWI Proposal 15397 for vote by end of May 2010 to have the result before the Sao Paulo meeting	
10-07	de Groot	to give a presentation on technical inconsistencies in ISO 12634	



ISO/TC 130/WG 4 Media and materials

Attendance List

39th Meeting of ISO/TC 130/WG 4 2010-04-23, St. Gallen


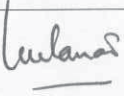
Name	Country	Signature
Bertholdt, Uwe Dr.	DE	
Winkelmann, Karin Dipl.-Ing.	DE	
Abbott, Mary	US	
Barros, Gustavo Gil	SE	
Boccardo, Attilio	IT	
Bohan, Mark	US	
Carnelli, Carlo	IT	
Cheydleur, Raymond	US	
Claypole, Tim C. Dr.	GB	
Coleman, James E.	US	
da Costa P. N. da Luz, Maira	BR	
Dieckhoff, Frank	DE	
Doyle, Steve	US	
Egawa, Yuji	JP	
Ford, Peter	US	



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39th Meeting of ISO/TC 130/WG 4 2010-04-23, St. Gallen

Name	Country	Signature
Goodman, Richard M. Dr.	US	
Green, Phil	GB	
de Groot, Wilco	NL	
Guinguene, Pascale	FR	
Hansuebsai, Aran Prof. Dr.	TH	
Horii, Mamoru	JP	
Katemake, Pichayada Dr.	TH	
Khoury, Elie	FR	
Koopipat, Chawan Dr.	TH	
Kraushaar, Andreas	DE	
Lanat, Luc	FR	
Luetkens, Heath	US	
Marttila, Jouni	FI	
Matsuo, Masaaki	JP	
McDowell, David Q.	US	



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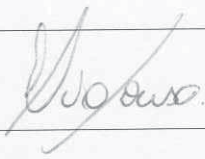
Name	Country	Signature
Meinecke, Karl M.	DE	
Morihara, Yasuhiro		
Mortara, Bruno Arruda	BR	
Nanbu, Shuuichi	JP	
Nomura, Akihiro	JP	
Orf, Debbie	US	
Osada, Koichi	JP	
Pachonklaew, Pakamas Prof.	TH	
Pate, Laurie	GB	
Presley, Richard	US	
Rangel, Rose	BR	
Rich, Danny Dr.	US	
Ruff, Mike		
Rupyshev, Viktor	RU	
Ruttanasirimaneevate, Prajak	TH	



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39th Meeting of ISO/TC 130/WG 4 2010-04-23, St. Gallen

Name	Country	Signature
Schaul, Ronald Professor	DE	
Smiley, Steve	US	
Soares Stucchi, Aparecida	BR	
Sousa, Elcio	BR	
Steiger, Walter F. X.	CH	
Sunderland, Bryan	GB	
Takita, Hiroaki	JP	
Urabe, Hitoshi		
van Middelkoop, Kees	NL	
Verhoeven, Andre	NL	
Warter, Lawrence C.	US	
Widmer, Erwin	CH	
Wilson, Dan		
Zawacki, Walter F.	US	
Zhiyong, Ma	CN	



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Name	Country	Signature
Jordan, Byron Dr.	CA	
Battrick, George	DE	<i>see next page</i>
Beckmann, Beatrix	DE	
Thees, Roland Dipl.-Wirt.-Ing.	DE	<i>see next page</i>

ISO/TC 130/WG 3 Process control and related metrology

Observer Attendance List [not registered at ISO GD]

39th Meeting of ISO/TC 130/WG 4, 2010-04-23, St. Gallen

Name	Country	Company	Signature
Hye-Jeong, Ahn	KR	Graphics World	<i>[Signature]</i>
Jacksch, Reinhardt	DE	Planatol System GmbH	
Fong, Andrew	CN	Leo Paper Group- Heshan Astros Prining Ltd.	
Venkataramana, Rotti	IN	HT Burda Media Ltd	<i>A. Venkata Ramana</i>
Villa, Alberto	IT	TAGA ITALIA	<i>[Signature]</i>
<i>Batrick, George</i>	<i>Liaison</i>	<i>ERA (European Litography Association)</i>	
<i>Thees, Roland</i>	<i>ERA-DE</i>	<i>WAN-IFRA</i>	<i>R. Thees</i>