



[ISO/TC 130/WG 3](#)

Process control and related metrology

E-mail of Secretary: karin.winkelmann@din.de

Secretariat: DIN

Draft Meeting Minutes St. Gallen 2010-04-19/21

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Background

The attached Draft Meeting Report is for review **by 20 May 2010**.

If there are no comments by this date the meeting report will be designated as final report.

**MINUTES FROM THE 39th MEETING OF
ISO/TC 130/WG 3
PROCESS CONTROL AND RELATED METROLOGY
St. Gallen, Switzerland, 2010-04-19/21**

1 Opening of the meeting

The meeting was called to order at 09:00 h by Mr. Andreas Kraushaar, convenor. He thanked Erwin Widmer (Ugra) and EMPA for organizing and hosting the meeting and providing the excellent facilities. Mr. Smiley was thanked for taking the minutes. Due to the interrupted/restricted air traffic in Europe (due to the active Volcano in Iceland) some experts were not able to attend in person. Thanks to Olaf Drümmer (callas) a web conferencing system was installed. That allowed the remote participation of the experts who were not able to attend.

2 Roll call of experts and observers

A roll call of experts was held. The attendance list, including the experts attending remotely and physically, is given in Annex 1 to these minutes.

3 Review and approval of agenda

Mr. Kraushaar discussed the updated agenda, (ISO/TC130/WG3 N 904). With some minor revisions as represented in these minutes, it was unanimously approved. The following items has been added to the agenda:

- 10.3 ISO/TC 42/JWG 21 (ISO 5 series)
- 10.4 Report from the ECI.

4 Review and approval of the minutes from the prior Beijing meeting

The minutes of the prior Beijing meeting (N 867) were unanimously approved. However, Mr. de Groot raised a concern that his comments to be sent to the convener via email after the Beijing meeting haven't been addressed. Mr. Kraushaar replied that he responded to that email and is still waiting for a response. It was agreed to handle that offline and report about it at the next meeting.

5 Identification of new Documents

Since the Beijing meeting the following new documents – not included in the agenda (N 904) - were identified:

- N 905 ISO/TC 130 N1607 IDEAlliance Support of the GWG Request to TC 130
- N 906 Quality Assessment of Printed Matter V2
- N 907 Editors Resolution of comments ISO NWIP 14861
- N 908 Proposed ISO WD2_14861
- N 909 Proposed Edits for ISO 12646
- N 910 Proposed ROC NWIP ISO 12647-6

- N 911 Draft WD2 12647-6 (E)
- N 912 TC130N1629 RoV CD 12647-8 2 and compilation of comments
- N 913 McDowell response to AI WG3 09-01- needs for review of ISO 13656
- N 914 Kraushaar AI 09-21 URLs Fogra studies on 12647 series
- N 915 Response to AI WG3-09-16 (12647-7/-8)
- N 916 Editors prop ROC CD12647-8 2 for Discussion St. Gallen
- N 917 CD12647-8.2 incl editors proposed&accepted ROC
- N 918 ISO 15339-1 (E) Process Agnostic WD2
- N 919 N351 WD 12647-7 Sept 1999 for cmts to N918_PWI 15339 Process agnostic
- N 920 NWIP 15311-1 V1b Requirements for printed matter utilizing digital printing technologies for the commercial and industrial production
- N 921 ISO15311 JNB proposal for discussion in St. Gallen
- N 922 DE proposal ISO 12647-2 for comment and discussion St Gallen
- N 923 VDP comments for DIN NDR3 N 492 WD 12647-2-GC
- N 924 Details for web meeting facilities and access to St. Gallen meetings
- N 925 add to N915_CGATSN1163 New-X-Rite-Standard-Graphic-Arts
- N 926 LL NWIP FR 15397 Properties 2010 04 17 v2.2
- N 927 TC130WG4N0557 Response to AI WG4 0910 Lanat Proper
- N 928 Evaluating rub resistance test methods for inkjet proof prints V4
- N 929 Thongpetch AI 09-18 Testing procedure for light fading re ISO 12647-7
- N 930 LL Light Fastness and Aging 2010 04 18 v3
- N 931 ISO15311 first ideas - CR2
- N 932 ISO15311 JNB proposal
- N 933 certification-study group
- N 934 Revision ISO12647-2 Heidelberg
- N 935 Revision ISO12647-2 Requirements
- N 936 15339-1 4-2010 proposed presentation for WG3

6 Report of the convenor on the status of standards and work items

Mr. Kraushaar reported on the current status of the related standards (N 902).

7 Review of Beijing action items (N 900)

No.	Docum.	Who?	What?	C (closed), o
08/19	ISO 12647-6	Smiley, Kraushaar	To spec out colour tolerances (allowing for chroma/hue angle variances) for the colour definitions on flexo printing solid coloration tolerances	Closed, hue angle definition will be delivered (see action item 10/11)
08/23	ISO 12647-2	Warter, Hossli, Meinecke	To Compare the LWC press runs (ECI) with SWOP3 char.-data	C, Action Item has been dropped.
08/24	ISO 12647-2	Warter	To analyse FOGRA40, 41 and SWOP5 with respect to (future) ISO paper type	C
09/01	ISO 13656	McDowell	Review the needs for update to 13656 in light of the revised 5 series and make a proposal in Beijing	C, general comments have been submitted (N 913)
09/09	ISO 12647-7	Bohan, McDowell	Compare the 12647-7 rub test to other tests available in the U.S.	O, Dave McDowell will follow up on

				that
09/13	ISO 12647-4, 2846-3	Meinecke, Bertholdt	Supply the ink and gamut data for the new proposed gamut 2 data for revisions to 12647-4 and 2846-3 to WG3 and WG 4	C, see WG 4 document N 559.
09/16	ISO 12647-7&8	McDowell, Cheydeur	Develop a method by which tolerances could be specified that minimized the contribution of inter-instrument agreement in colour measurements to allow tighter tolerances for 12647-7 and 8	O, see N 915 and 925 as a starting point
09/17	ISO 12647-7&8	Warter, Revie	Develop a proposal for changes to 12647-7 based on McDowell's and Cheydeur's recommendations and input from the committee to further differentiate it from 12647-8.	O, to be deferred until the future course of -8 is clear. See action Item 10/01.
09/18	ISO 12647-7	Thongpetch, Mortara	To draft a practical testing procedure for light fading to be used as potential input for 12647-7.	C, see N 929. Further action moved to Action Item 10/01
09/19	ISO 12647-8	Kraushaar, de Groot	To test the proposed mechanical stabilization technique ("Pruefbau method") and determine if a replacement of the present method in Annex A is appropriate.	C, findings have been published and samples have been shown at the meeting (N 928).
09/20	ISO 12647-8	Kraushaar	To apply the recommended light fastness test (ISO/NWIP 5630-7) and compare it to the existing method (ISO 12040).	C (closed), see new action item 10-07
09/21	ISO 12647	Kraushaar	Provide URL's for the Fogra studies that support his proposal on all parts of 12647.	Closed (N 914)
09/22	ISO 12647-1/2/3	Green, Revie Transferred to Meinecke	Coordinate and collect information from the committee as to input toward the Technical Report describing the status of 12647-1/2/3. Changed to read: Provide a summary of the contents of the <PSO document> to the committee so that this can be considered as the basis for a technical report that describes how to address the areas not covered by ISO 12647.	O (Changed)
09/23	Digital Printing	Kraushaar	To start a preliminary new work item (stage 0) to start work on a digital printing standard focusing on production printing. (Tentative title Graphic Technology: Requirements for printed matter utilizing digital printing technologies for the commercial and industrial production).	Closed. Project started as ISO/PWI 15311 (N 906 & 920)
09/24	Certification	de Groot	Create and chair a task group to explore steps and procedures for setting up ISO based international certification procedures	Closed

8 Review and discussion of standards and current work items

8.1 ISO 12646/Amd1, Graphic technology – Displays for colour proofing – Characteristics and viewing conditions

8.2 ISO/NWIP 14861, Graphic technology – Colour Proofing using electronic displays

Both topic 8.1 and 8.2 have been discussed jointly. Mr. Kraushaar reported on the status of both documents. While ISO 12646/Amd 1 is currently being sent out for final publication to ISOCS, ISO/NWIP 14861 has been approved as a WD. Based on a list of proposed resolution of comments (N 907), that have been included into a document (N 908), Mr. Luetkens bravely lead through the technical comments remotely. The group resolved most of the comments and in doing so it was agreed to decided to start a revision of ISO 12646 in order to modify it to cover the needed requirements for the displays (to be part of a softproofing system to be tested). It was further agreed to initiate a NWI and a simultaneous CD ballot.

Action item 10/02: Luetkens to prepare a NWI and a revision of ISO 12646 incorporating the changes identified in N 909 and the content described in ISO/NWIP/WD 14861 (N836). This new draft of ISO 12646 is intended to be submitted for vote as a CD together with the NWI proposal.

Action item 10/03: Luetkens and Thees to collect information about the acceptance of data for typical softproofing applications in newsprint (4.2.1) and provide a proposed wording for appropriate requirements (TIFF-IT & PDF/X).

Action item 10/04: Luetkens to provide a draft for ISO 14861 for CD ballot before June 15th 2010 and to provide a draft of ISO 12646 to accompany it (for information only - to see that the comments on WD 14861 referring to ISO 12646 have been addressed).

Winkelmann will send the appropriate word documents of ISO 12646 to the editor.

8.3 ISO 12647-1/2/3 Graphic technology – Process control for the manufacture of half-tone colour separation, proofs and production prints

Mr. McDowell asked to discuss the process agnostic approach (ISO/PWI 15339 - N 847 & 918) of topic 8.9 in conjunction with this topic.

Mr. Smiley started the discussion with a presentation from IDEAlliance addressing the request from the GWG (N905). Mr Zwang (Chairman of the Ghent PDF Workgroup) has stated "...I can't see any reason why consensus based characterization sets reflecting a number of the most widely used printing conditions couldn't be released as ISO TR's based on the in-place standards. As a starting point the Ghent PDF working Group would like to see the small differences between the FOGRA39 and IDEAlliance GRACoL (ANSI/CGATS TR 006) characterization data sets resolved so that consideration could be given to publishing a common data set as an ISO Technical Report."

IDEAlliance has prepared a "Universal PT1" dataset and profile addressing GWG needs. This dataset has been created using the FOGRA39 dataset, the proposed "Amd1 curves" from Dr. Bestmann, adding G7 near neutral calibration. Mr. Smiley pointed out this could be given to the GWG to address their request. Whilst Mr. McDowell thinks that both FOGRA39 and GRACoL2006 are equally valid interpretations of ISO 12647-2 Paper Type 1, Dr. Bestmann believes that only

FOGRA39 is in conformance. Dr. Bestmann proposed to send both FOGRA39 and GRACoL2006 and the associated profiles to GWG because both are in wide use in Europe and US.

This was followed by a presentation by Dr. Bestmann (N 934) termed "Revision ISO 12647-2 - Heidelberg Comments and Demands". He concluded that the focus of the revision should be on the demands of the printers by means of a well defined interface between print buyer and press and aim values and tolerances that reflect daily production and existing metrology. He pointed out that characterization data must be in relation to a printing process and the metrology to be used there such as densitometry for tone response (TVI) calibration. Similar experiences have been made by other experts such as Mrs. Brunner, Mr. Meinecke or Mr. Reid. Mr. Revie outlined that there are a theoretical and a practical aspect and that the uncertainties in printing are bigger than the differences in the data sets. After a lengthy discussion about the need of a hardwired relation between a reference printing condition (represented by a characterization data set) and a well-defined process, it must be stated there was no consensus.

A potential solution has been found by separating the work of ISO/PWI 15339 and the revision of ISO 12647-1/2/3 for the time being. It was agreed to ask Mr. McDowell to provide a revised version of the document (N 918) including a candidate for a "type 1 paper" characterization data set. This can be sent to GWG for consideration but it must be noted that a formal answer of ISO TC130 WG3 can only be expected after the results of the ballot are available.

Action item 10/05: McDowell, to submit a document containing (among others) "type 1" char.-data to be balloted as a NWIP and CD 15339 (to be used as a candidate for unified char.-data set) by end of May 2010.

Depending on the results of the ballot, this could then be provided to the GWG from TC130 WG3.

After that Mr. Lanat updated the group on activities by the paper industries going on in WG4 (N 930). A new document (N 927) should be drafted that comprises important paper characteristics.

The second day started with a presentation by Dr. Bestmann (N 935) outlining the ideas of the DE delegation on how to update ISO 12647-1/2/3 (N 922). This was based on the work that has been presented already in Fort Worth (N 798) and Beijing (N 843). After a discussion about the planned changes it was agreed to go further with that and to start a NWIP to revise ISO 12647-2. That document should include the comments by the Paperdam group (N 923), which have been prepared based on N 922.

8.4 ISO 12647-4, Graphic technology -- Process control for the production of half-tone colour separations, proofs and production prints -- Part 4: Publication gravure printing

Mr. Battrick reported on the status of the standard that is subject to be revised (based on a Beijing resolution). The main changes to be addressed are the colorimetric aim values for the second set of inks (to be in concert with ISO 2846-4 and to reflect current practice in Europe). A proposal should be submitted soon while Mr. Battrick and Mr. Meinecke will be the editors.

8.5 ISO 12647-6:2006 - Flexographic printing

Based on the proposed resolution of comments (resulting from the NWIP ballot) Mr. Smiley and Mr. Gil Barros lead through the discussion. In order to resolve the comments and to propose a document for CD ballot the following action items have been assigned:

Action item 10/10: Rich, to provide aim values for the secondaries for the light fastness ink set.

Action item 10/11: Rich, Carnelli, to provide colour difference information for the deviation tolerance.

Action item 10/12: Smiley, to provide a document to be balloted as a CD (before 15th June).

8.6 ISO 12647-7, Graphic technology – Process control for the manufacture of half-tone colour separation, proofs and production prints – Part 7: Proofing processes working directly from digital data

Mr. Kraushaar explained the current status. The document is published but there are some comments. Mr. Thongpetch gave a presentation (N 929) about a proposed testing procedure for testing fading. He proposed to add an estimated usage period on the status line of contract proof. The followed discussion resulted in different opinions on that. Whilst Mr. Asseiceiro commented that this might be a good idea Mr. Lindström proposed to keep such a thing outside ISO 12647-7. Further comments on how to change ISO 12647-7 have been discussed. Based on that the following action item has been created:

Action item 10/01: Revie, to publish a hit list of (areas of) potential changes of ISO 12647-7.

8.7 ISO/CD 12647-8, Graphic technology – Process control for the manufacture of half-tone colour separation, proofs and production prints – Part 8: Validation print processes working directly from digital data

Mr. Kraushaar gave an overview on the current status. The CD ballot (for a second CD) has been approved and the editor, Mr. Warter, has provided a list of proposed resolution of comments (N 916) and a document containing those proposed changes (N 917). It was stated that the term “Validation Print” exactly refers to the term “Design Proof”. The latter was depreciated after lengthy discussion about potential confusions (see minutes of prior meetings). After a somehow heated debate about on how to resolve the comments there was a consensus to submit a revised document to be balloted for the next stage (DIS).

Action item 10/06: Kraushaar, to propose a rub resistance proposal (in case no consensus will be found 4.2.8 (rub resistance) to be dropped at the next meeting)

Action item 10/07: Lanat, to review point 4.2.1 wording on OBA, UV and light fastness related issues and summarize routes for further developments. Liaise with WG 4 discussions

Action item 10/08: McDowell, Mahy, Kraushaar, to provide substantiation and a proposal for the tone value difference calculation. (clause 4.2.7).

8.8 ISO 13656:2000, Graphic technology - Application of reflection densitometry and colorimetry to process control or evaluation of prints and proofs

Mr. Kraushaar reported on the need of updating ISO 13656, which is based mostly on film, in order to be in synch with the updated ISO 5 series as well as ISO 13655. In response to Action Item 09-01 (N913) McDowell listed the changes that need to be made to ISO 13656. He also noted that he did not feel that the benefits would be worth the effort and suggested it be withdrawn. In order to so anyone is encouraged to ask their national body for potential input and comments. Mr. de Groot mentioned that there might be certification bodies that might be affected if that standard will be withdrawn.

8.9 ISO/NWI 15339

This issue has been discussed in conjunction with ISO 12647-1/2/3, see 8.3.

8.10 ISO/PWI 15311, Graphic Technology - Requirements for printed matter utilizing digital printing technologies for the commercial and industrial production

Mr. Kraushaar led a discussion on a digital production standard. He recalled related activities of this WG of the original scope of ISO 12647-7 (N 919) and stressed the demands from the industry towards TC130 to start work on requirements for digital production printing. Based on work done already by the Fogra digital printing working group a proposal of ISO 15311-1 has been submitted (N 920). A schematic overview of the proposed structure was presented by Mr. Revie (N 931), a member of the DPWG. Followed by that, a similar input from the Japanese delegation has been presented also by Mr. Revie (N 932 based on N921). Mr. Warter then presented work (based on a Word document) that has been done by IDEAlliance in order to certify digital printing systems mimicking offset production.

The followed discussion showed that a use case related approach (rather than a technology or imaging dependent one) seems more appropriate in order to reflect the different characteristics of the digitally printed products. It was agreed to resolve the minor differences between the structure proposed by the Japanese delegation on the one hand and the Fogra DPWG on the other hand. A more concrete document including specific quality metrics, that are able to characterize the print quality (for conventional and digital prints), should be compiled and submitted for the next meeting.

Action item 10/09: Kraushaar, Warter, Urabe, Beltrami, Lindström, Smiley, Revie, Asseiceiro, Thees, Kassorla, Mortara, to collect a list of potential uses cases (for all kind of printing) and to provide a more concrete set of documents for ISO 15311. The first should be done by means of a matrix.

9 Supporting Activities, TG, task force

9.1 Certification Study Group (ISO 12647)

Mr. de Groot gave a brief overview of the certification study group to be held direct after that meeting (N 933). He invited anyone to join.

9.2 TC 130/TF 1 Carbon Footprinting (CO₂) Task Force

Since that meeting was ongoing in parallel there was no attendee at the meeting being able to report. Further information can be found by reading the minutes of that task force.

9.3 Postpress Processes Standards Study Group

There was nothing reported here.

9.4 TC 130/WG 3/TF 1 Paper Categorization

Mr. Kraushaar said that no significant progress has to be reported here. Since the lack of activity he asked the group if it would be agreeable to close or pause this task force. After a brief discussion it was discussed to ask Dr. Bertholdt (convener of that task force) to provide substantiation to the group alongside with a proposal on how to go forward.

10 Liaison matters

10.1 ISO/TC 42/JWG 24 (ISO 3664:2009)

Mr. Kraushaar reported that the action has been completed.

10.2 ISO/TC130/JWG 8 (ISO 13655:2009)

Mr. Kraushaar reported that the action has been completed.

10.3 ISO/TC42/JWG 21 (ISO 5 series)

Mr. Kraushaar reported that the action has been completed.

10.4 Report from the ECI

Mr. Drümmer updated to the group about an ongoing project of the ECI to create a machine-readable ICC profile registry. More information will be provided at the WG2 meeting.

11 Summary of (open) St. Gallen action items

No.	Docum.	Who?	What?	c, o
09/09	ISO 12647-7	Bohan	Compare the 12647-7 rub test to other tests available in the U.S.	O, Dave McDowell will follow up on that
09/16	ISO 12647-7&8	McDowell, Cheydleur	Develop a method by which tolerances could be specified that minimized the contribution of inter-instrument agreement in colour measurements to allow tighter tolerances for 12647-7 and 8	O, see N 915 and 925 as a starting point

09/17	ISO 12647-7&8	Warter, Revie	Develop a proposal for changes to 12647-7 based on McDowell's and Cheydleur's recommendations and input from the committee to further differentiate it from 12647-8.	O, to be deferred until the future course of - 8 is clear.
09/22	ISO 12647- 1/2/3	Green, Revie Transferred to Meinecke	Coordinate and collect information from the committee as to input toward the Technical Report describing the status of 12647-1/2/3. Changed to read: Provide a summary of the contents of the <PSO document> to the committee so that this can be considered as the basis for a technical report that describes how to address the areas not covered by ISO 12647.	O (Changed)
10/01	ISO 12647-7	Revie	To publish a hit list of (areas of) potential changes of ISO 12647-7.	O
10/02	ISO 14861 ISO 12646	Luetkens, McDowell	Luetkens to prepare a NWI and a revision of ISO 12646 incorporating the changes identified in N 909 and the content described in ISO/NWIP/WD 14861 (N836). This new draft of ISO 12646 is intended to be submitted for vote as a CD together with the NWI proposal.	O
10/03	ISO 14861	Luetkens, Thees	To collect information about the delivery of data (4.4) and provide a proposed wording (TIFF-IT & PDF/X)	O
10/04	ISO 14861	Luetkens Winkelmann	Luetkens to provide a draft for ISO 14861 for CD ballot before June 15th 2010 and to provide a draft of ISO 12646 to accompany it (for information only - to see that the comments on WD 14861 referring to ISO 12646 have been addressed). Winkelmann will send the appropriate word documents of ISO 12646 to the editor.	O
10/05	ISO/NWIP 15339	McDowell	McDowell, to submit a document containing (among others) "type 1" char.-data to be balloted as a NWIP and CD 15339 (to be used as a candidate for unified char.-data set) by end of May 2010.	O
10/06	ISO 12647-8	Kraushaar	To propose a rub resistance proposal (in case no consensus will be found 4.2.8 (rub resistance) to be dropped at the next meeting)	O
10/07	ISO 12647-8	Lanat	To review point 4.2.1. wording on OBA, UV and light fastness related	O

			issues and summarize routes for further developments. Liaise with WG 4 discussions.	
10/8	ISO 12647-8	McDowell, Mahy, Kraushaar	Provide substantiation and a proposal for the tone value difference calculation. (clause 4.2.x)	O
10/9	ISO 15311	Kraushaar, Warter, Urabe, Beltrami, Lindström, Smiley, Revie, Asseiceiro, Thees, Kassorla, Mortara	To collect a list of potential uses cases (for all kind of printing) and to provide a more concrete set of documents for ISO 15311. The first should be done by means of a matrix.	O
10/10	ISO 12647-6	Rich	To provide aim values for the secondaries for the light fastness ink set	O
10/11	ISO 12647-6	Rich, Carnelli	To provide colour difference information for the deviation tolerance	O
10/12	ISO 12647-6	Smiley	To provide a document to be balloted as a CD (before 15 th June)	O

12 Requirements concerning the future meeting (2010-10-11-15)

For WG3 two and a half days are required at the minimum (3 days would be preferred). This roughly relates to 12647-8 (½ day), ISO 12647-1/2/3/4/6 and Process agnostic (1 day), 14861 (½ day) and Digital printing and ½ day).

13 Any other business

Since the combination of the in-person and virtual meeting worked quite well Mr. Kraushaar asked to group on how to deal with having remote conference for future WG3 meetings. It was agreed to consider having web conference functionalities as an option for further meetings to allow more experts to participate without extensive amount of travelling.

14 Adjourn

Mr. Kraushaar thanked everyone for their input, the experts who attended remotely and getting up quite early, the Switzerland delegation as well as the sponsors one more time for providing the excellent facilities. He further thanked Mr. Smiley for taking the minutes, Mr. Drümmer for doing a marvellous job in providing and maintaining the web conferencing and adjourned the meeting.

ANNEX 1 – Attendance list

<u>Physically (in-person):</u>	<u>Via Web Conference:</u>
Andreas Kraushaar DE	Makoto Matsuki, JP
Karin Winkelmann, DE	Florian Süßl, DE
Victor Asseiceiro, US	Dick Presley, US
Gustavo Gil Barros, SE	Danny Rich, US
Alessandro Beltrami, IT	Joe Fazzi, US
Uwe Bertholdt, DE	Richard Goodman, US
Günter Bestmann, DE	David McDowell, US
Laurel Brunner, UK	Debbie Orf, US
Gerd Carl, DE	Akihiro Ito, JP
Carlo Carnelli, IT	Walter Steiger, CH
Frank Dieckhoff, DE	Stephan Jaeggi, CH/GWG liaison
Olaf Drümmer, DE	Heath Luetkens, US
Wilco de Groot, NL	Ray Chedyleur, US
Pascale Guinguene, FR	Larry Warter, US
Gallus Hossli (only 2010-04-19)	Lucy Liu, CN
Luc Lanat, FR	Hitoshi Urabe, JP
Paul Lindström, SE	Dveer Kasorla, IL
Karl Michael Meinecke, DE	Robert Chung, US
Craig Revie, UK	Mark Stegmann,
Ronald Schaul, DE	
Steve Smiley, US	
Supree Thongpetch, TH	
Erwin Widmer, CH	
George Battrick, ERA Liaison	
Roland Thees, WAN-IFRA Liaison	
Ahn Hye-Jeong, KR	
Bernd-Olaf Fiebrandt, DE	
Beat Kneubühler, CH	
Benno Petschik, DE	
Ian Reid, UK	
Urs Schaub, CH	
Eddy Senn, CH	
Maxim Siniak, CH	
Alberto Sironi, IT	
Marc Mahy, BE	
Bruno Mortara, BR (as of 2010-04-20)	
Daniel Würigler, CH	