# CIE TC 8-16 Consistent Colour Appearance (CCA) in a Single Reproduction Medium

Informal Workshop at RIT

1st June 2017

W Craig Revie

## Agenda

10:00	Introductions, CIE Technical Committee TC8-16 overview (Craig Revie)
10:20	Research plan for Yamagata University (Yasuki Yamauchi)
10:50	Research plan for NTNU (Greg High)
11:20	Research plan for Fogra (Roman Byshko)
11:50	Research plan for RIT (Elena Fedorovskaya)
12:00	Lunch
13:00	Conceptual visual assessment experiment (Craig Revie)
13:30	Prior work done by CGATS (Ken Elsman)
14:00	Discussion
15:00	Tour of Munsell Colour Lab
16:00	Close of meeting





Increasing gamut size



Q1: why do images in set B have a similar appearance whereas the images in set A do not?

**Q2**: is the degree of similarity of a set of images something that could be measured?

Q3: are all observers in agreement as to when Consistent Colour Appearance is achieved?

#### Flexible print (RGB) workflow



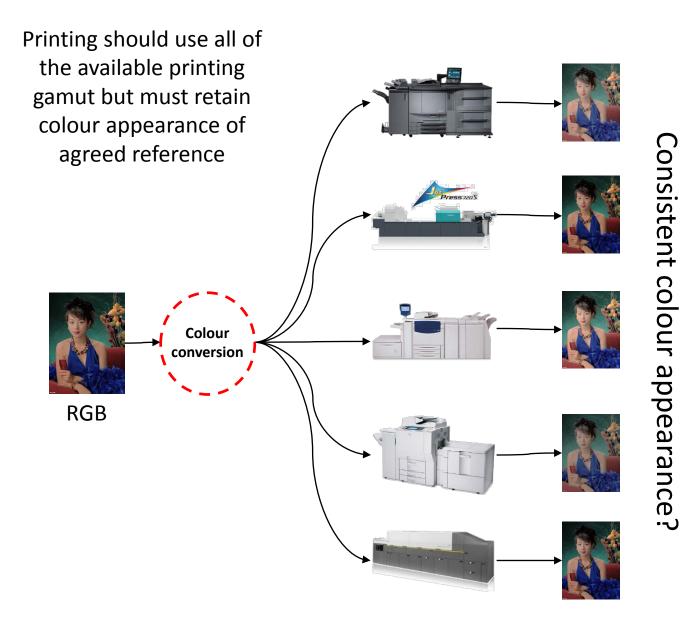


Print contract is agreed based on a reference display image or prototype print from a standard digital printing system





**RGB** 



#### **CIE TC8-16**

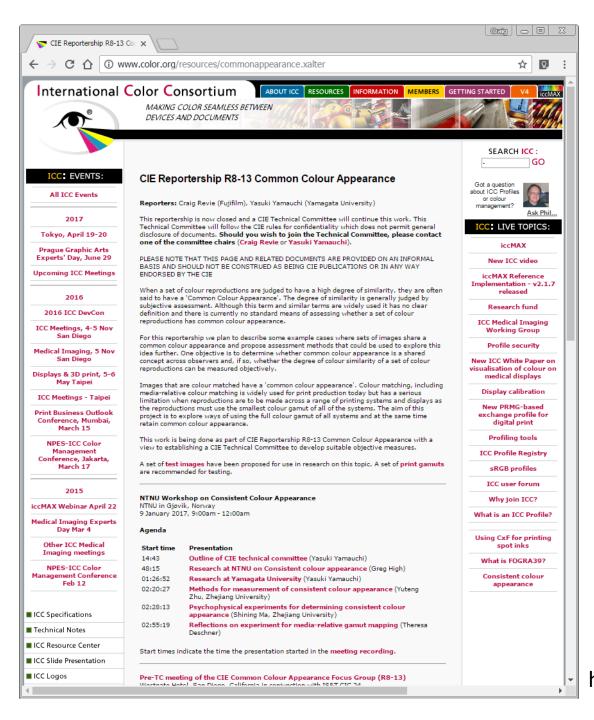
Title: Consistency of Colour Appearance within a Single Reproduction Medium

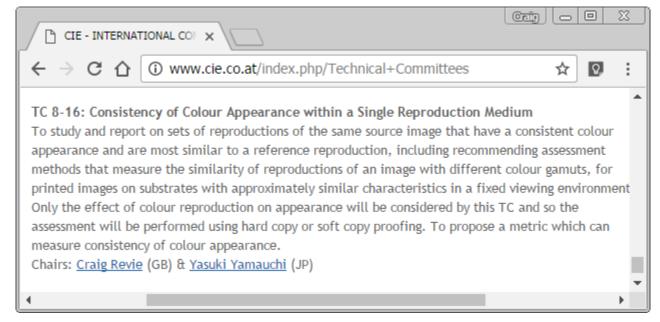
**Scope**: To study and report on sets of reproductions of the same source image that have a consistent colour appearance and are most similar to a reference reproduction, including recommending assessment methods that measure the similarity of reproductions of an image with different colour gamuts, for printed images on substrates with approximately similar characteristics in a fixed viewing environment. Only the effect of colour reproduction on appearance will be considered by this TC and so the assessment will be performed using hard copy or soft copy proofing. To propose a metric which can measure consistency of colour appearance.

Chairs: Craig Revie (GB) & Yasuki Yamauchi (JP)

### CIE TC 8-16 members

Marc Mahy	BE	Gregory High	UK
Claas Bickeboeller	CH	Jan Morovic	UK
Yuan Jiang Ping	CN	Ronnier Luo	UK
Andy Kraushaar	DE	Danny Rich	US
Jürgen Seitz	DE	David McDowell	US
Nikolaus Pfeiffer	DE	Elena A. Fedorovskaya	US
Philipp Tröster	DE	Max Derhak	US
Christine Fernandez-Maloigne	FR	Michael Brill	US
Yasuki Yamauchi (chair)	JP	Po-Chieh Hung	US
Peter Nussbaum	NO	Robert Chung	US
Phil Green	NO	Timothy Baechle	US
Chris Bai	TW		
Craig Revie (chair)	UK	24 members, 10 countries, 4 res	earch sites





http://www.cie.co.at/index.php/Technical+Committees

http://www.color.org/resources/commonappearance.xalter

## Key dates

9 Jan 2017	NTNU Workshop on Consistent Colour Appearance
2 Mar 2017	TC 8-16 "Consistency of Colour Appearance within a Single Reproduction Medium" fulfilled all requirements to be active according to the CIE CoP
24 Apr 2017	Mini Workshop on Consistent Colour Appearance in Yonezawa (Yamagata University)
1 Jun 2017	RIT Workshop on Consistent Colour Appearance within a single medium (day will include a tour of the Munsell Color Science Lab)
6 July 2017	Virtual CIE TC 8-16 inaugural meeting
11-15 Sep 2017	Face-to-face meeting in conjunction with IS&T CIC25 in Norway (Lillehammer or Gjøvik)
TBD Jan/Feb 18	Virtual CIE TC 8-16 meeting to finalise details of evaluation method