



#COLOR19

# Standards Answers Panel

Advancing Graphic Communications



**PRINTING  
INDUSTRIES  
OF AMERICA**



Don Schroeder

Director Packaging Solutions  
Fujifilm Graphic Systems Division  
ISO TC130 USTAG, PPC, TAGA



**#COLOR19**

A great deal of work goes into the development of standards that are applicable to the graphic arts industry. But once these standards are accepted, not everyone agrees on which are most important, how they are best implemented—or whether they even need to be implemented.

In this lively panel discussion, Don Schroeder will host a lively panel of distinguished standards gurus where they will discuss today's trends, technologies, and standards development, and how it will affect color management in the future.

Advancing Graphic Communications



**PRINTING  
INDUSTRIES  
OF AMERICA**





## Your Moderator

- 27 years with Fujifilm Graphic Systems USA (1991 – 2018)
- Film Specialist...
- Color Proofing Technical Advisor (Color-Art)
- Sales Representative (Michigan / Indiana)
- Product Manager (FinalProof) still running! EOL Media this year
- Director of Solutions Development (ColorPath Sync)
- Director of Packaging Solutions Development
- Industry Organization: PIA Color, IDEAlliance PPC, TAGA Board Member
- ISO/TC 130 Standards Member, IIC IOT member (3 years).



# Last year we researched the word GURU!

A screenshot of a Google search page. The search bar contains the text "meaning of guru". Below the search bar, there are tabs for "All", "News", "Images", "Videos", "Maps", and "More". A red arrow points to the "All" tab. Below the tabs, it says "About 19,400,000 results (0.53 seconds)". The main content area shows a dictionary entry for "guru".

Dictionary

guru

**gu·ru**  
/'gooroo/

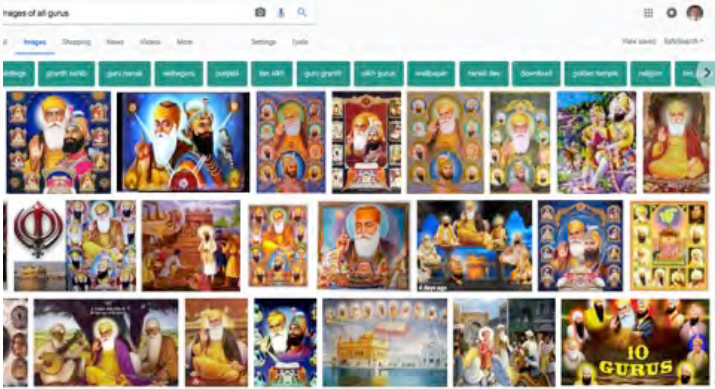
*noun*

(in Hinduism and Buddhism) a spiritual teacher, especially one who imparts initiation.  
*synonyms:* spiritual teacher, teacher, tutor, sage, mentor, spiritual leader, leader, master; *More*

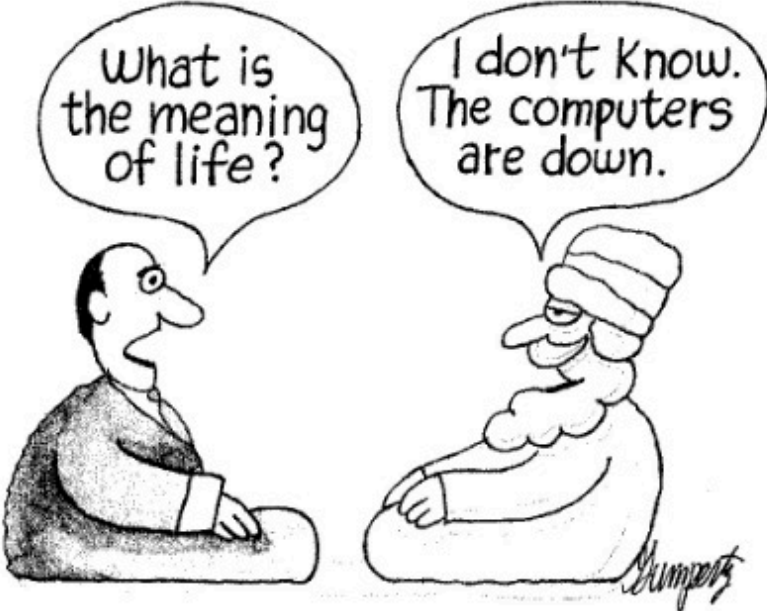
- each of the ten first leaders of the Sikh religion.
- an influential teacher or popular expert.  
"a management guru"  
*synonyms:* expert, authority, pundit, leading light, master, specialist; *informal* whiz  
"a management guru"

Translations, word origin, and more definitions

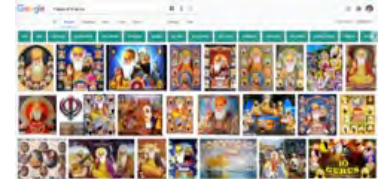
Feedback



# GURU!



# Time to Meet our Panel of Guru's!



- Raymond Cheydleur, Printing and Imaging Professional, Print, Packaging and Imaging Product Portfolio Manager X-Rite Incorporated, (Chairman USTAG ISO TC 130 USA Delegation), [rcheydleur@xrite.com](mailto:rcheydleur@xrite.com)
- William Li, Color Products Manager, Kodak, [william.li@kodak.com](mailto:william.li@kodak.com)
- Steve Smiley, SmileyColor & Associates LLC, <http://www.smileycolor.com/>
- Dov Isaacs, Principal Scientist, Adobe Systems Incorporated, [isaacs@adobe.com](mailto:isaacs@adobe.com)



# U.S. Technical Advisory Group to ISO Technical Committee 130 (USTAG) Roster 2018

## SCOPE

The USTAG to ISO TC 130 identifies Technical Experts to represent the United States at ISO TC 130 meetings. In addition, the TAG is responsible for distributing ISO documents to members of the U.S. printing and publishing industry for review for the purpose of developing the U.S. consensus position on the work, and advising the American National Standards Institute (ANSI) on the appropriate action.

**Chairman:** Mr. Raymond Cheydleur

**Secretary:** Ms. Debbie Orf

**Web Site:** <http://www.npes.org/programs/standardsworkroom.aspx>



## PARTICIPATION

Participation in the USTAG is open to anyone who may be materially affected by the standards developed by the USTAG or who may otherwise have an interest. All meetings are open, and minutes and draft documents are readily available upon request.



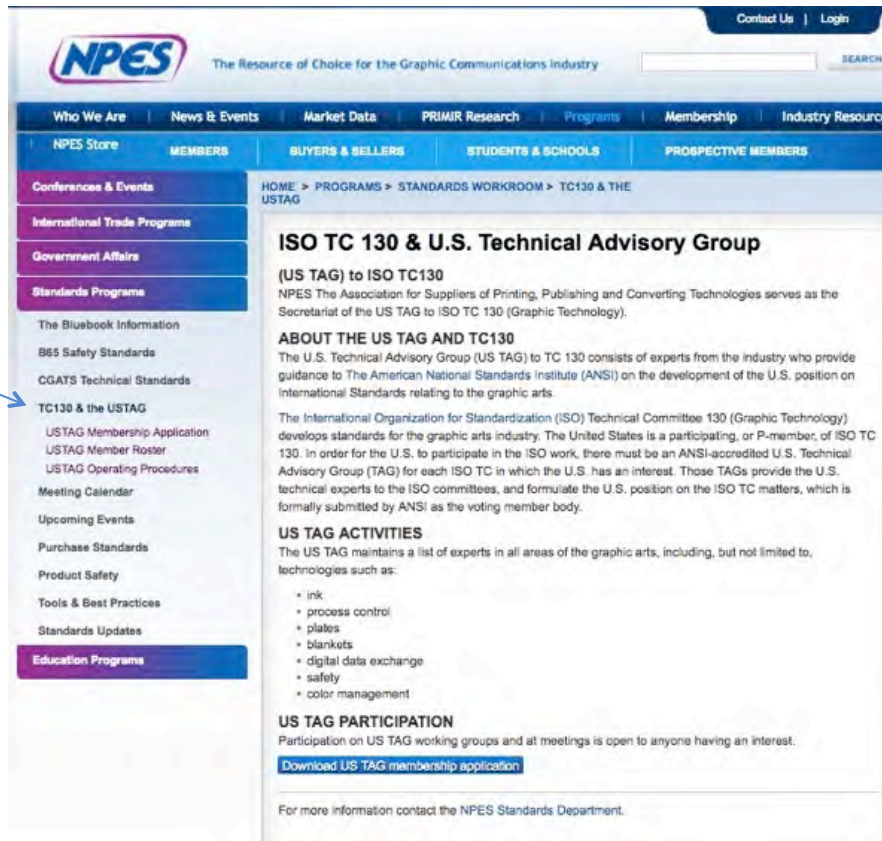
---

## Where can I find out about Standards Online?





<http://www.npes.org/programs/standardsworkroom/tc130theustag>.



The screenshot shows the NPES website interface. At the top, the NPES logo is displayed with the tagline "The Resource of Choice for the Graphic Communications Industry". A navigation menu includes "Who We Are", "News & Events", "Market Data", "PRIMIR Research", "Programs", "Membership", and "Industry Resources". Below this, a secondary menu lists "NPES Store", "MEMBERS", "BUYERS & SELLERS", "STUDENTS & SCHOOLS", and "PROSPECTIVE MEMBERS".

The main content area is titled "HOME > PROGRAMS > STANDARDS WORKROOM > TC130 & THE USTAG". The primary heading is "ISO TC 130 & U.S. Technical Advisory Group". Below this, it states "(US TAG) to ISO TC130" and provides a brief description of NPES's role as the Secretariat of the US TAG to ISO TC 130 (Graphic Technology).

The "ABOUT THE US TAG AND TC130" section explains that the US TAG consists of industry experts providing guidance to ANSI on the development of U.S. positions on international standards. It also notes that the ISO Technical Committee 130 develops standards for the graphic arts industry, and the U.S. must have an ANSI-accredited TAG to participate.

The "US TAG ACTIVITIES" section lists various technologies such as ink, process control, plates, blankets, digital data exchange, safety, and color management.

The "US TAG PARTICIPATION" section states that participation in working groups and meetings is open to anyone with an interest and provides a link to "Download US TAG membership application".

The left sidebar contains a list of navigation options, with "TC130 & THE USTAG" highlighted and pointed to by a blue arrow. Other options include "Conferences & Events", "International Trade Programs", "Government Affairs", "Standards Programs", "The Bluebook Information", "B65 Safety Standards", "CGATS Technical Standards", "USTAG Membership Application", "USTAG Member Roster", "USTAG Operating Procedures", "Meeting Calendar", "Upcoming Events", "Purchase Standards", "Product Safety", "Tools & Best Practices", "Standards Updates", and "Education Programs".



# Web Site

<http://www.npes.org/programs/standardsworkroom/thebluebookinformation.aspx>

association for  
**print**  
technologies  
*Assessing Digital Communications*

Contact Us | Login

f e in

SEARCH

Who We Are | News & Events | Market Data | PRIMIR Research | Programs | Membership | Industry Resources

NPES Store | Content | MEMBERS | BUYERS & SELLERS | STUDENTS & SCHOOLS

PROGRAMS WORKROOM

International Trade Programs

Government Affairs

Standards Programs

The Bluebook Information

B65 Safety Standards

CGATS Technical Standards

TC130 & the USTAG

Meeting Calendar

Upcoming Events

Purchase Standards

Product Safety

Tools & Best Practices

Standards Updates

Education Programs

HOME > PROGRAMS > STANDARDS WORKROOM > THE BLUEBOOK INFORMATION

### The Bluebook Information

Standards for the Printing, Publishing and Converting Industry (The "Bluebook") is a free publication serving as a reference for standards activities both in the United States and internationally.

[The NPES Standards Bluebook - 2017](#)

Standards for the

## Printing Publishing and Converting Industry

*A Reference Guide for National and International Standards Activities*

January 2017

**NPES**

The Association for Suppliers of Printing, Publishing and Converting Technologies  
1699 Preston White Drive, Reston, Virginia 20191-4367  
Tel: 703-264-7200 Fax: 703-430-0994 URL: www.npes.org



# Web Site

<http://www.npes.org/programs/standardsworkroom/thebluebookinformation.aspx>

## PREFACE

The purpose of this handbook is to provide you with a reference to standards activities in the printing, publishing, and converting industry, both in the United States and internationally.

As with all ongoing activities, the status of the activities described is ever-changing. Please feel free to contact the NPES Standards Department if you would like information relating to the current status of a project.

Pages in this booklet may be photocopied and distributed without prior permission.

Bulk quantities of this publication are available in electronic format – FREE OF CHARGE – from the NPES Publications Department by contacting Debbie Orf ([dorf@npes.org](mailto:dorf@npes.org)) or Sharon Cassette ([scassete@npes.org](mailto:scassete@npes.org)).

Please visit the Standards Workroom at <http://www.npes.org/programs/standardsworkroom.aspx> for current drafts of many of the standards under development, minutes of standards committee meetings, links to order forms for industry standards, meeting information and important industry updates.

Questions regarding standards activities can be directed to Debbie Orf, Senior Director of ICC and Standards NPES, via Tel: 703-264-7200; Fax: 703-620-0994; or E-mail: [dorf@npes.org](mailto:dorf@npes.org).



# Things to know inside the BlueBook!

<http://www.npes.org/programs/standardsworkroom/thebluebookinformation.aspx>

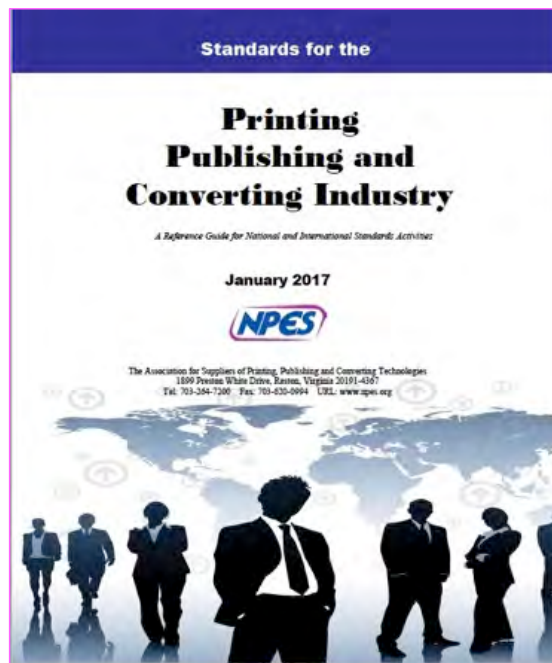


TABLE OF CONTENTS	
Standards for the Printing, Publishing and Converting Industry	
<b>Chapter 1:</b>	Standards: What Are They and Why Are They Important?.....1
<b>Chapter 2:</b>	Standards Versus Specifications .....6
<b>Chapter 3:</b>	Who Are ANSI, ISO and IEC? .....12
<b>Chapter 4:</b>	Who's Who in Printing, Publishing and Converting Standards .....26
<b>Chapter 5:</b>	The Committee for Graphic Arts Technologies Standards (CGATS) .....29
<b>Chapter 6:</b>	B65 Committee .....33
<b>Chapter 7:</b>	ISO TC 130 and US TAG to ISO TC 130 .....36
<b>Chapter 8:</b>	Consortia .....41
<b>Chapter 9:</b>	Printing, Publishing and Converting Associations and Organizations .....48
<b>Chapter 10:</b>	Colleges, Universities and Institutions Offering Graphic Communications .....70
	NPES Technical Standards Catalog .....90
	NPES Safety Standards Catalog .....106



# Standards and Why they are Important

- Today, companies are facing fundamental changes in the way they must do business.
- As we move toward a global economy, standardization issues continue to grow more complex.
- As more international trade agreements are implemented, domestic manufacturers will face growing competition from international concerns.
- **Standards are documented consensus agreements**
- In many cases, they provide uniformity which allows worldwide acceptance and application of a product or material.
- Standards help to remove technical barriers to trade, leading to new markets and economic growth for the industry.
- **Today, standards are recognized as being essential to helping companies be innovative, reduce costs, improve quality and maintain competitiveness in an international marketplace.**

## Chapter 1:

### STANDARDS: WHAT ARE THEY AND WHY ARE THEY IMPORTANT?

Standards are documented consensus agreements containing safety or technical specifications or other precise criteria to be used consistently as rules, guidelines, or definitions of characteristics for materials, products, processes and services. In many cases, they provide uniformity which allows worldwide acceptance and application of a product or material. The aim is to facilitate trade, exchange and technology transfer. Standards help to remove technical barriers to trade, leading to new markets and economic growth for the industry.

Standards committees provide a forum where peers and competitors can come together for mutual benefit. Through ANSI, ISO and IEC activities, you and your company can play a leading role in the development of national and international standards that affect our industry, enhancing your technical strength and market position.

Today, companies are facing fundamental changes in the way they must do business. Strategies and business practices are continuously being evaluated to determine how to maintain and increase market share, reduce costs, increase productivity and safety, and achieve and maintain a competitive edge.

Standards have been in existence for many years. At one time, they were thought of as being the lowest common denominator, restrictive, and of little importance. That has changed. Today, standards are recognized as being essential to helping companies be innovative, reduce costs, improve quality and maintain competitiveness in an international marketplace.

As we move toward a global economy, standardization issues continue to grow more complex. They are critical to the survival and prosperity of companies marketing internationally. As more international trade agreements are implemented, domestic manufacturers will face growing competition from international concerns. Standardization provides a way to help shrink barriers to trade.

Standards for the printing, publishing, and converting industry will enable processes to run faster, more predictably, more efficiently, and be more cost effective by:

- providing uniform, defined procedures and tools which help users produce quality products for their customers;
- facilitating interconnectivity and process integration among systems, both CEPS and desktop;
- allowing users to communicate with one another easily;
- enhancing product quality and reliability at a reasonable price;
- increasing distribution efficiency and ease of maintenance; and
- improving health, safety and environmental protection, and reduction of waste.

# Standards and Why they are Important

- Standardization provides a way to help shrink barriers to trade.
- Standards for the printing, publishing, and converting industry will enable processes to run faster, more predictably, more efficiently, and be more cost effective
- **Providing uniform, defined procedures and tools which help users produce quality products for their customers;**
- Facilitating interconnectivity and process integration among systems
- Allowing users to communicate with one another easily
- Enhancing product quality and reliability at a fair and reasonable price
- **Increasing distribution efficiency and ease of maintenance; and improving health, safety and environmental protection, and reduction of waste.**
- Many more.....

Safety standards provide guidelines for the design of safer equipment and for improved safety programs in the workplace. They provide for greater awareness of safety in the design of equipment, and increased consistency in operating procedures. They also emphasize that safety is the responsibility of everyone, including the equipment manufacturer, the owner, the operator and the maintenance personnel.

Implementation of safety features and procedures, along with advances in personnel training, will result in a decrease of injuries. This, in turn, will result in a safer work environment, less time lost from the job due to injuries, and reduction in workers' compensation costs.

Technical standards describe how to do a particular procedure in a defined way, with the goal of achieving compatibility and interchange of information between equipment, practices and procedures, and producing output with more predictable results. They also help to characterize various parts of the printing process, resulting in the development of characterization data which can be used by software programs.

Technical standards can make information systems easier to use and less expensive to operate. They allow communication between information users, publishers and other information providers about key methods, practices, procedures and formats reflecting marketplace requirements.

The adoption of technical standards facilitates the expansion of both domestic and international markets. It also provides users with an assurance that products and services from various sources meet a recognized level of quality. To the extent that such products and services are interchangeable, technical standards promote competition among suppliers and offer increased prospects for cost efficiency.

Many of the standards developed by the U.S. standards committees are now being introduced into the international standards arena, forming the basis for the development of international consensus standards.

Today, standards are no longer just for manufacturing. Whether you are a manufacturer, a reseller, a product user or a print buyer, standardization can be of benefit to you. You are encouraged to familiarize yourself with these industry standards, and to become actively involved in the development of new standards. It takes the cooperation of both equipment and product vendors and the users to develop standards which will best serve the industry. Even if you are unable to attend meetings, you can become involved by reviewing draft documents under development and providing comments. By familiarizing yourself with the standards for the industry, you can bring them to the attention of others, and encourage their implementation. Standards efforts to strengthen the industry can only be successful through the commitment of the industry to provide the technical personnel resources to develop and implement sound technical and safety standards.

Although company budgets are tight, and personnel resources stretched, it is increasingly important that U.S. manufacturers of equipment and technology, as well as the users of this equipment and technology, not only keep up-to-date on standards activities, but also become active participants in



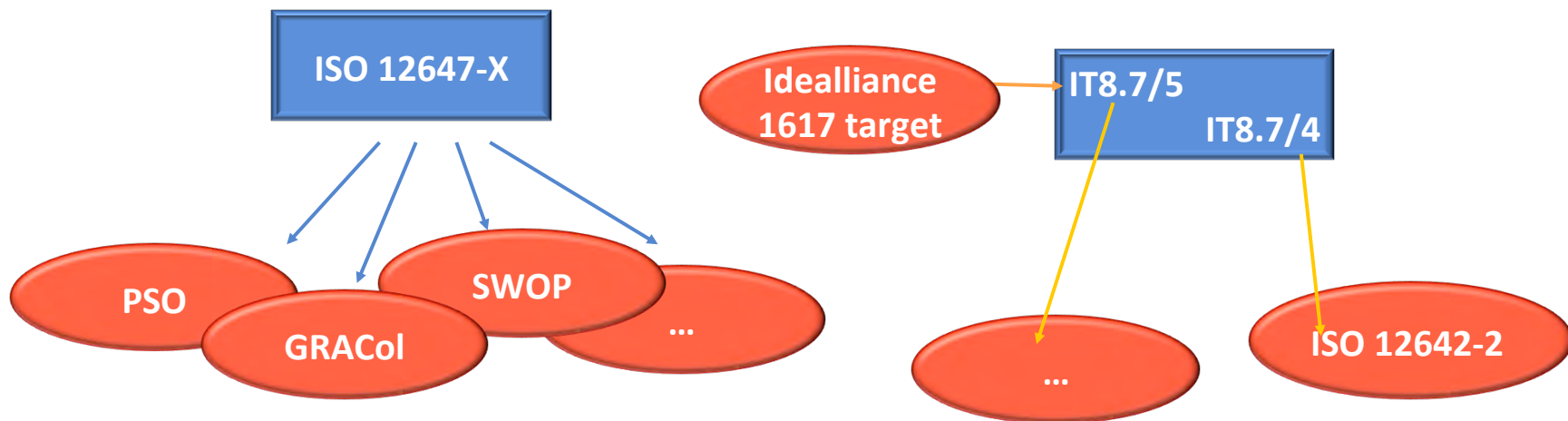
---

## Standards and Why they are Important

- <https://www.youtube.com/watch?v=DADoGeuYMql>

# Why Standards Are Important

- National standards often become ISO standards
- In some countries ISO standards are considered legal industry requirements
- Most industry *Process Specifications* are standards based







Stages of Standard Documents	
<b>PWI</b> - preliminary work item	<b>NP</b> - new work item proposal
<b>WD</b> - working draft	<b>CD</b> - committee draft
<b>DIS</b> - draft International Standard (ISO)	<b>FDIS</b> - final draft International Standard
<b>PAS</b> - Publicly Available Specification	<b>TS</b> - Technical Specification
<b>TR</b> - Technical Report	

# ISO TC130 Graphic Technology

98

published ISO standards\*  
under the direct responsibility  
of ISO/TC 130

35

ISO standards under  
development\*  
under the direct responsibility  
of ISO/TC 130

21

Participating members

24

Observing members

\* number includes updates



\*P members are voting members with an obligation to participate  
\*\* O members receive documents and can attend meetings



# ISO TC130 Working Groups

- ISO/TC 130/TF 3 Workflow standards roadmap
- ISO/TC 130/WG 1 Terminology
- ISO/TC 130/WG 2 Prepress data exchange
- ISO/TC 130/WG 3 Process control and related metrology
- ISO/TC 130/WG 4 Media and materials
- ISO/TC 130/WG 5 Ergonomics - Safety
- ISO/TC 130/WG 6 Not active
- ISO/TC 130/JWG 7 Colour management (Joint WG with ICC)
- ISO/TC 130/JWG 8 Revision of ISO 13655 (Joint W G with ISO/TC 42)
- ISO/TC 130/JWG 9 Development of ISO 12640-5 (Joint WG with ISO/TC 42)
- ISO/TC 130/WG 10 Management of security printing processes (Joint WG with ISO/TC 247)
- ISO/TC 130/WG 11 Environmental impact of graphics technology
- ISO/TC 130/WG 12 Postpress
- ISO/TC 130/WG 13 Printing conformity assessment requirements
- ISO/TC 130/JWG 14 Print quality measurement methods (w/ISO/IEC JTC 1/SC 28)
- ISO/TC 130/JWG 15 Development of ISO 20294 (Joint with IEC/TC 100)



## So let's start here with our panel of Gurus....

- ISO/TC 130/TF 3 Workflow standards roadmap
- ISO/TC 130/WG 1 Terminology
- ISO/TC 130/WG 2 Prepress data exchange
- ISO/TC 130/WG 3 Process control and related metrology
- ISO/TC 130/WG 4 Media and materials
- ISO/TC 130/WG 5 Ergonomics - Safety
- ISO/TC 130/WG 6 Not active
- ISO/TC 130/JWG 7 Colour management (Joint WG with ICC)
- ISO/TC 130/JWG 8 Revision of ISO 13655 (Joint W G with ISO/TC 42)
- ISO/TC 130/JWG 9 Development of ISO 12640-5 (Joint WG with ISO/TC 42)
- ISO/TC 130/WG 10 Management of security printing processes (Joint WG with ISO/TC 247)
- ISO/TC 130/WG 11 Environmental impact of graphics technology
- ISO/TC 130/WG 12 Postpress
- ISO/TC 130/WG 13 Printing conformity assessment requirements
- ISO/TC 130/JWG 14 Print quality measurement methods (w/ISO/IEC JTC 1/SC 28)
- ISO/TC 130/JWG 15 Development of ISO 20294 (Joint with IEC/TC 100)



# Beta Data Sets offset profiles (OBA's)

## Recommendation

- Currently published offset profiles represent papers with no to low OBA content. Redefine the datasets to include moderate to high levels of OBA content

Category	L*	a*	b*
No OBA/Packaging	95	0	-2
Low OBA/Commercial	95	1	-4
Medium OBA/Commercial	95	1.5	-8
High OBA/Commercial	95	1.5	-12

# Topics to consider

- Expanded Gamut 4 Color
- Multi-Color Gamut 5 plus colors
- OBA Beta Data Sets with new aims
- Development of a new Profiling chart
- TR 19305 – Graphic Arts Workflows Processes with inputs and outputs / Stakeholders Responsibilities..
- ISO online Browsing Platform Search engine for all things related to ISO standards including terms and definitions <https://www.iso.org/obp/ui/#search>
- ISO 12641-2, Advanced Colour targets for input scanner calibration  
Publication being prepared
- ISO 17972-4, Spot colour characterisation data (CxF/X-4) Published Jan 2018
- ISO 20616 Graphic technology -- File format for quality control and metadata
- Part 1: Print requirements exchange (PRX) WD
- Part 2: Print quality exchange (PQX) DIS being drafted
- ISO 15930-9 *Graphic technology — Prepress digital data exchange using PDF — Part 9: Complete exchange of printing data (PDF/X-6) and partial exchange of printing data with external profile reference (PDF/X- 6p and PDF/X-6n) using PDF 2.0* Approaching end of work period, canceled, now out for ballot as a new CD
- ISO 19593-1 *Graphic technology — Use of PDF to associate printing steps and content data* Published: April 2018
- PDF/X Application Notes Continued work item



- ISO 16612-3, Graphic technology – Variable data exchange – Part 3: Using PDF/X-6 (PDF/VT-3) CD
- ISO 16684-1 Graphic technology -- Extensible metadata platform (XMP) -- Part 1: Data model, serialization and core properties DIS approved ROC Dec. 11
- ISO 21812-1 Graphic technology -- Digital data exchange -- Print product metadata for PDF files -- Part 1: Architecture and core requirements for metadata DIS approved 11/2018
- Graphic technology -- Process control for the production of half-tone colour separations, proof and production prints
  - ISO/NP 12647-2 Graphic Technology - *Offset Lithographic process* Revision proposed
  - ISO 12647-6 Graphic Technology - *Flexographic printing* CD
  - ISO 12647-8, Graphic Technology - Validation print processes working directly from digital data Revision started
  - ISO 12647-9, Graphic Technology - Metal decoration printing processes CD
- ISO/TR 23031 Graphic technology -- Assessment and validation of the performance of spectrophotometers and spectrodensitometers DTR
- ISO/TR 23805 *Graphic technology -- Dry back calculation for offset printing process* CD



# Topics to consider

- ISO/TS 15311-1:2018 Graphic technology — Print quality requirements for printed matter — Part 1: Measurement methods and reporting schema *Publication being prepared*
- ISO/TS 15311-2:2018 *Graphic technology — Print quality requirements for printed matter — Part 2: Commercial print applications utilizing digital printing technologies* *Published Oct 2018*
- The curious case of ISO TS 10128 and ISO PAS 15339-1 and 2
  - Both reconfirmed in their respective forms though both have “aged out” of their status
  - US voted to revise 10128 and confirm 15339
- ISO/WD 2834-1 *Graphic technology -- Laboratory preparation of test prints -- Part 1: Paste inks* *CD*
- *ISO/CD 2836 Graphic technology -- Prints and printing inks -- Assessment of resistance of prints to various agents* *CD*
- *ISO/DTR 22909-1 Graphic technology – Preparation of decorative laminate samples for appearance assessment — Part 1: General*
- *ISO 22909-2 Graphic technology – Preparation of decorative laminate samples for appearance assessment — Part 2: Liquid resin process* *22909 split into two documents one a TR the other an IS*
- *ISO 22934 Graphic technology -- Communication of paste ink properties* *WD/CD*
- *ISO 23498 Graphic technology -- Visual opacity of white ink* *NWI*
- *ISO 23395 Graphic technology-Method and device for testing the ink or varnish adhesion on a substrate* *CD*
- ISO 12643 series, *Graphic technology — Safety requirements for graphic technology equipment and systems*
  - *Part 1: General requirements* *DIS*
  - *Part 2: Prepress and press equipment and systems* *DIS*
  - *Part 3: Binding and finishing equipment and systems* *CD*
  - *Part 4: Converting equipment and systems* *CD*
  - *Part 5: Manually-fed stand-alone platen presses* *NWI*
- ISO 14298:2013 *Graphic technology - Management of security printing processes* *Expect to start a revision next year*
- ISO 21632: 2018 *Graphic technology — Determination of the energy consumption of digital printing devices including transitional and related modes* *Published Dec 2018*
- ISO 20294: 2018 *Graphic technology — Quantification and communication for calculating the carbon footprint of e-media* *Published Nov 2018*
- *ISO 16759:2013 Graphic technology -- Quantification and communication for calculating the carbon footprint of print media products* *Reconfirmed*
- *ISO 22067-1 Graphic technology - Environmental statement criteria and parameters for printed products -- Part 1: Printing of packaging* *NWI/WD*



# Topics to consider

- ISO 19301 *Graphic technology -- Guidelines for schema writers -- Template for colour quality management* **DIS approved ROC begun**
- ISO 19302: 2018 *Graphic technology — Colour conformity of printing workflows* **Published Dec 2018**
- ISO/TR 19303-1 *Graphic Technology – Guidelines for Schema Writers – Part 1: Packaging printing* **Preparation for Publishing**
- WG 7
  - ISO/TS 21830 *Graphic technology – BPC for n-colour profiles* **Published Sept 2018**
  - ISO 20677 *Image technology colour management — Extensions to architecture, profile format, and data structure* **Approved FDIS Nov 2018, preparing to publish**
  - ISO/NP 23564: *Image technology colour management -- Evaluating colour transform accuracy in ICC profile* **NWI**
  - ISO TS 23534-1 *Image technology colour management -- Interoperability conformance specification: Architecture for process colour plus spot colour overprint simulation -- Part 1: Colorimetric processing* **CD**
- ISO/TS 18621-11 *Model for computing and analysing Colour Gamut* **project approved moved to DTS ballot after Tokyo**
- ISO/TS 18621-31 *Evaluation of the perceived resolution of printing systems with the contrast - resolution chart* **DIS ballot approved but moved to 2<sup>nd</sup> DIS**
- ISO 20294 *Graphic technology -- Quantification and communication for calculating the carbon footprint of e-media* **(DIS)**
- Additional work: categorize e-media, collect info on carbon footprint of e-newspaper





# CGATS Committee for Graphic Arts Technology Standards

- IT8/7.5 Target passed committee
  - This target removes duplicates in the IT8/7.4 target and adds gray scales for the calculation of G7.
  - Tests have shown improved neutrals in standard ICC profiles
- TR016, Graphic technology — Printing Tolerance and Conformity Assessment
  - Killed/Reaffirmed/New draft being proposed
- Revising Recommended Industry Practices documents
  - <http://www.npes.org/programs/standardsworkroom/toolsbestpractices/recommendedindustrypractices.aspx>





#COLOR19

# Standards Answers Panel



Don Schroeder  
Packaging Solutions Director  
Fujifilm Graphic Systems Division,  
ISO TC130 USTAG, PPC,