

The BlueBook

Standards for the

Printing Publishing and Converting Industry

A Reference Guide for National and International Standards Activities

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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, standards@npes.org, if you would like information relating to the current status of a project.

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Bulk quantities of this publication are available in electronic format – *FREE OF CHARGE* – from the NPES Publications Department by contacting orders@npes.org.

Please visit the Standards Workroom at <http://www.npes.org/standards/workroom.html> 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, Asst. Director of Standards Programs at NPES, via Tel: 703-264-7200; Fax: 703-620-0994; or E-mail: dorf@npes.org.

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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.

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 development. The time and cost are minimal relative to potential benefit for your business.

If you have questions on how you can become involved in this work, please contact Debbie Orf, Asst. Director of Standards Programs at NPES via Tel: 703-264-7200; Fax: 703-620-0994; or E-mail: dorf@npes.org.

THE ECONOMIC BENEFITS OF STANDARDIZATION

The German Institute for Standardization (DIN) commissioned a research study to determine the value of standardization to corporations. The study was developed from questionnaires sent to over 4,000 companies in 10 industry sectors, selected at random, in Germany, Austria and Switzerland.

The final report on that study, entitled “The Economic Benefits of Standardization,” is available in English from the DIN website <http://www.din.de/aktuelles/benefit.html>.

Following are quotes from the report, and from Part A, which focused on both the benefits of standards for business and on the benefits for the economy as a whole.

In comparing both company-developed standards, and industry-wide standards, the report states that “...company standards have the greatest positive effect on businesses, for they help improve processes. When it comes to the relationship with suppliers and customers, however, industry-wide standards are the main instruments used to lower transaction costs and assert market power over suppliers and customers. In fact, industry-wide standards play a vital role in our increasingly globalized world.”

The report further notes that “...it is significant that standards make a greater contribution to economic growth than patents or licences, that export-oriented sectors of industry make use of standards as a strategy in opening up new markets, and that standards help technological change.”

The study concentrated on “the effects of standards on costs in general, on research and development, and safety.”

Strategic significance of standardization

“Companies are generally unaware of the strategic significance of standardization.”

Although the persons involved in the standards development process are aware of the significance of the standards to their company’s success, often this awareness does not extend to the corporate decision-makers. In addition, the decision to participate in the standardization process is often made only on the basis of how time-consuming and costly this will be. The economic payback of participation in standards development is not always obvious, but the survey showed that

companies actively involved in the standards process are more likely to see both short- and long-term cost benefits than those that do not participate.

Potential competitive advantage through standards

“Having influence in the content of a standard is an important factor in gaining competitive advantage.”

It is often said that you can be part of the solution, or you can live with the solution developed by others. Being part of the standards development process allows the company to gain “insider knowledge” and to exert greater influence on the substance of the standards.

Cost reduction through standardization

“Standardization can lead to lower transaction costs in the economy as a whole, as well as to savings for individual business.”

The interviews with representatives of major firms as well as small- and medium-sized companies revealed that the costs of developing standards are not easily quantified. However, the businesses interviewed rated the positive effect on transaction costs as positive, noting that transaction costs drop considerably as a result of standards since they make information easily accessible to all interested parties.

Effects of standards on the supplier-client relationship

“Standards have a positive effect on the buying power of companies.”

Standards can encourage competition within the marketplace, and can be used by businesses to exert market pressure on companies further down the value-added chain. Businesses are therefore able to use standards to broaden their potential markets. Companies also have increased confidence in the quality and reliability of suppliers who use standards.

Standards and the formation of strategic alliances

“...it is clear that cooperation between companies in matters of standardization is advantageous, for the resulting synergy can help reduce costs and increase profits.”

In the survey, respondents rated the effect of standardization on cooperation with competitors as positive, indicating that standardization encourages cooperation between businesses that are at the same stage in the value chain.

Standards and research and development

“Businesses not only reduce the economic risk of their R&D activities by participating in standardization, but can also lower their own R&D costs.”

The economic risk of research and development is lowered when a company can influence the content of standards to its advantage. In addition, the expense of R&D can be reduced when participants in standards work make their results generally available, eliminating duplication of research efforts.

Product safety and liability

“Lower accident rates are partly due to standards. Participation in the standardization process increases awareness of product safety.”

The development and implementation of safety standards contributes to the reduction of accident rates, and raises awareness of safety features and practices. Representatives of consumer organizations see their involvement in the standardization process as having increased the industry’s awareness of the importance of product safety.

“Because standards reflect the current state of technology, they can help businesses reduce their liability risk.”

Standards are of great use to states in drawing up legislation, and are often referenced in legal cases.

Benefits for the economy as a whole

“An effective dissemination of innovation via standards is a precondition for economic growth.”

Innovation is an important factor in maintaining competitiveness and economic growth, but is of limited value unless this innovation is effectively disseminated. Standards are one means of disseminating new ideas and technologies, and the study showed that they have a positive influence on potential innovation and on international trade.

Chapter 2:

STANDARDS VERSUS SPECIFICATIONS

The term “standard” has been loosely applied to any agreed-upon way of doing things. However, there is a big difference in the way the standard has been developed and will be maintained, and often a big difference in who has agreed upon the contents of the standard.

There are essentially three principal types of standards:

Accredited standards generally have two important characteristics. They are developed and adopted as standards through an open consensus process, under the guidelines of national or international standards bodies. These procedures ensure that the concerns of all interested parties will be heard and addressed. In addition, accredited standards tend to distinguish more clearly the difference between requirements (normative elements) that must be met to conform to the standard, and descriptive material (informative elements) that provide additional information, but do not contain requirements. ISO, IEC, ANSI and other national standards bodies develop standards through this consensus process. Accredited standards are publicly available from the respective standards bodies.

Industry specifications often take the form of formalized industry practices. An example of this would be SWOP (Specifications for Web Offset Publications), which is a standardized printing specification. These specifications generally are developed by a group within the industry, but there are no formal guidelines or procedures that ensure that the work is open to any interested party or open for review and comment during the development process. Such groups are not bound to consider or respond to comments on the work. However, such publications are generally publicly available and can be referenced in accredited standards.

De facto standards are usually developed and owned by a single group or company, and gain credibility as the result of the use of a critical mass of people. The development of such work is done within a closed group and is not open to the consensus process. In addition, the resulting standards are subject to change, without notice, by the owner of the work. In some cases, the use of these standards requires payment of a licensing fee. PostScript is an example of a de facto standard. In many cases, de facto standards are developed by a company to serve a specific product line and target market.

This handbook focuses on the work of accredited standards bodies, specifically ISO, IEC and ANSI.

Most agree that the development of accredited standards is important to facilitate international exchange and trade. However, one complaint often heard is that their development takes too long. In general, this work is done by industry volunteers, whose companies support their participation in the standards development process as an important investment of time and manpower for the benefit of the company. It is often the case that the length of time it takes to develop a standard is directly proportional to the technical manpower available to do the work. So, if you are one who is unwilling to provide some of the manpower, it is hard to defend the complaint that standards development “takes too long.”

Chapter 3:

WHO ARE ANSI, ISO AND IEC?

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

The American National Standards Institute (ANSI) was founded in 1918 by five engineering societies and three government agencies. It remains a privately funded federation representing both the private and public sectors. Comprised of Government agencies, Organizations, Companies, Academic and International bodies, and individuals, ANSI represents the interests of more than 125,000 companies and 3.5 million professionals. ANSI was a founding member of the International Organization for Standardization (ISO) and plays an active role in its governance. It is one of five permanent members to the governing ISO Council, and one of four permanent members of ISO's Technical Management Board. U.S. participation, through the U.S. National Committee, is equally strong in the International Electrotechnical Commission (IEC).

ANSI is the sole U.S. representative and dues-paying member of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC). Through ANSI, the U.S. has immediate access to the ISO and IEC standards development processes. ANSI participates in the largest part of the technical program of both the ISO (78% of all ISO technical committees) and the IEC (91% of all IEC technical committees), and administers many key committees and subgroups. As part of its responsibilities as the U.S. member body of the ISO and the IEC, ANSI accredits U.S. Technical Advisory Groups (TAGs), whose primary purpose is to develop and transmit, through ANSI, U.S. positions on activities and ballots of the international technical committees.

In many instances, U.S. standards are taken forward (to ISO or IEC) through ANSI or the USNC, where they are adopted in whole or in part as international standards. Since the work of international technical committees is carried out by volunteers from industry and government, not by ANSI staff, the success of these efforts depends upon the willingness of U.S. industry and the U.S. government to commit the resources required to ensure strong U.S. technical participation in the international standards process.

One of the best indicators of the strength of the U.S. system is the government's extensive reliance on, and use of, private sector voluntary standards. Pursuant to OMB Circular A119, federal government agencies are required to use voluntary standards for regulatory and procurement purposes when appropriate. State and local governments and agencies have formally adopted thousands of voluntary standards produced by ANSI, and the process appears to be accelerating.

ANSI's mission is to enhance both the global competitiveness of U.S. business and the quality of life by promoting and facilitating voluntary consensus standards and conformity assessment systems, and safeguarding their integrity.

ANSI has four basic functions: (1) to facilitate U.S. standardization policy developments; (2) to accredit national standards developers, which provides consistency in the national standards system and helps to ensure the consensus process; (3) to promote U.S. standardization interests globally, and (4) to provide information and training regarding standardization.

ANSI does not write standards, but serves as an impartial organization which, through its procedures, validates the general acceptability of the work of the technical experts. It ensures that the standards writing group used democratic procedures that gave everyone who may be "directly and materially" affected by the use of the standard an opportunity to participate in the development work or to comment on the document's provisions. It assures users that those interested in the work reached consensus on the standard's provisions and that the document is technically sound and does not conflict with or unnecessarily duplicate other national standards.

ANSI voluntary standards include more than 100,000 product standards developed by more than 400 standards development organizations, including government, industry, technical societies, trade associations and companies. There are hundreds of thousands of standards users, including companies of all sizes; federal, state and local government agencies; universities, colleges and trade schools; businesses; consultants and individuals.

The Committee for Graphic Arts Technologies Standards (CGATS) and the B65 Committee for Safety Standards are the two ANSI-accredited committees developing national standards for the printing, publishing and converting industry. The U.S. Technical Advisory Group (US TAG) to ISO TC 130 provides input into the ISO standards activities relating to the industry. NPES serves as the Secretariat for those committees. Information on CGATS, B65 and the US TAG is contained in this booklet, and further information can be obtained by contacting Debbie Orf, Asst. Director of Standards Programs at NPES via Tel: 703-264-7200; Fax: 703-620-0994; or E-mail: dorf@npes.org.

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)

The International Organization for Standardization (ISO) is a worldwide federation of national standards bodies from some 157 countries, one member from each country, consisting of 104 member bodies, 43 correspondent members, and 10 subscriber members. This book provides contact information for ISO member bodies.

ISO, a non-governmental organization, was established in 1947. Its mission is to promote the development of standardization and related activities in the world with a view toward facilitating the international exchange of goods and services, and to developing cooperation in the spheres of intellectual, scientific, technological and economic activity. ISO's work results in international agreements that are published as international standards.

"ISO" is not an acronym, but is a word, derived from the Greek "isos" meaning "equal." This is the root of the prefix "iso-" that occurs in many terms, such as "isometric" (of equal measure or dimensions - Shorter Oxford English Dictionary) and "isonomy" (equality of laws, or of people before the law - *ibid*). From "equal" to "standard," the line of thinking that led to the choice of "ISO" as the name of the organization is easy to follow. In addition, the name has the advantage of being valid in each of the organization's three official languages, English, French and Russian. The confusion that would arise through the use of an acronym is thus avoided.

The scope of ISO covers standardization in all fields except electrical and electronic engineering standards, which are the responsibility of the International Electrotechnical Commission (IEC). Together, ISO and IEC form the specialized system for worldwide standardization: the world's largest non-governmental system for voluntary industrial and technical collaboration at the international level.

The work in the field of information technology is carried out by a joint ISO/IEC technical committee (JTC 1).

The results of ISO technical work are published in the form of international standards. To date ISO has more than 17,000 international standards and technical reports covering hundreds of industry fields.

ISO work is decentralized, being carried out by 3,093 technical bodies comprising 201 technical committees, 542 subcommittees, 2,287 working groups and 63 ad hoc study groups organized and supported by 38 technical secretariats in 23 countries. In these committees, qualified representatives of industry, research institutes, government authorities, consumer bodies and international organizations from all over the world come together as equal partners in the resolution of global standardization problems. The Central Secretariat in Geneva assists in coordinating ISO operations, administers voting and approval procedures, and publishes the international standards.

Developers of international standards are an estimated 30,000 engineers, scientists and administrators. They are nominated by ISO members to participate in the committee meetings and to represent the consolidated views and interests of industry, government, labor and individual consumers in the standards development process. Approximately 500 international organizations are in liaison with ISO technical committees, including nearly all of the UN specialized agencies.

The major responsibility for administering a standards committee is accepted by one of the national standards bodies that make up the ISO membership. The member body holding the secretariat of a standards committee normally appoints one or two persons to do the technical and administrative work relating to the committee. A committee chairman assists committee members in bringing work to consensus. Generally, a consensus will mean that a particular solution to the problem at hand is the best possible one for international application at that time.

The Central Secretariat in Geneva acts to ensure the flow of documentation in all directions, to clarify technical points with secretariats and chairmen, and to ensure that the agreements approved by the technical committees are edited, printed, submitted as Draft International Standards to ISO member bodies for voting, and published.

Each member body interested in a subject has the right to be represented on a committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The ISO Technical Committee that develops standards for the graphic arts is TC 130. The U.S. Technical Advisory Group (US TAG) to TC 130 consists of experts from the graphic arts industry who provide guidance to ANSI on the development of the U.S. position on international standards relating to the graphic arts. ISO TC 130 and the US TAG to ISO TC 130 are described more fully in another section of this book.

How are ISO standards developed?

ISO standards are developed according to the following principles:

- **Consensus**
The view of all interests are taken into account: manufacturers, vendors and users, consumer groups, testing laboratories, governments, engineering professions and research organizations.
- **Industry-wide**
Global solutions to satisfy industries and customers worldwide.
- **Voluntary**
International standardization is market-driven and therefore based on voluntary involvement of all interests in the marketplace.

There are three main phases in the ISO standards development process.

1. The need for a standard is usually expressed by an industry sector, which communicates this need to a national member body. The latter proposes the new work item to ISO as a whole. Once the need for an International Standard has been recognized and formally agreed, the first phase involves definition of the technical scope of the future standard. This phase is usually carried out in working groups which comprise technical experts from countries interested in the subject matter.
2. Once agreement has been reached on which technical aspects are to be covered in the standard, a second phase is entered during which countries negotiate the detailed specifications within the standard. This is the consensus-building phase.
3. The final phase comprises the formal approval of the resulting Draft International Standard (the acceptance criteria stipulate approval by two thirds of the ISO members that have participated actively in the standards development process, and approval by 75% of all

members that vote), following which the agreed text is published as an ISO International Standard.

Most standards require periodic revision. Several factors combine to render a standard out of date, such as technological evolution, new methods and materials, new quality and safety requirements. To take account of these factors, ISO has established the general rule that all ISO standards must be reviewed at intervals of not more than five years. On occasion, it is necessary to revise a standard earlier.

The membership of ISO

The membership of ISO is divided into three categories:

A **member body** is the national body "most representative of standardization in its country." Thus, only one body in each country may be a member of ISO. In the case of the United States, the American National Standards Institute (ANSI) is the voting member.

A member body takes the responsibility for:

- informing potentially interested parties in their country of relevant international standardization opportunities and initiatives;
- ensuring that a concerted view of the country's interests is presented during international negotiations leading to standards agreements; and
- providing their country's share of financial support for the central operations of ISO, through payment of membership dues.

Member bodies are entitled to participate and exercise full voting rights on any technical committee and policy committee of ISO.

Correspondent members are usually organizations in a country that does not yet have a fully developed national standards activity. Correspondent members pay reduced membership fees and are entitled to participate in any policy or technical body as observers, with no voting rights.

Subscriber member is generally a country with a very small economy. Subscriber members pay reduced membership fees that still allow them to maintain contact with international standardization.

Contact information for the national member bodies is listed on the pages that follow.

ISO Central Secretariat

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NATIONAL MEMBER BODIES OF ISO

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Argentina (IRAM)

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Bangladesh (BSTI)

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Brazil (ABNT)

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Cameroon (CDNQ)

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Ministère de l'Industrie, des Mines
et du Développement technologique
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INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC)

The IEC was founded in 1906 as a result of a resolution passed at the International Electrical Congress held in St. Louis, Missouri, in 1904. The membership consists of 55 participating countries. Regular members are National Committees each having equal voting rights. On becoming a member of the IEC, each National Committee agrees to open access and balanced representation from all private and public electrotechnical interests in its country. Associate members have observer status and can participate in all IEC meetings, while pre-associate members receive support in forming a national electrotechnical committee from the IEC Central Office with the aim of becoming associate members. Membership includes all the world's major trading nations and a growing number of industrializing countries.

The entire organization of the IEC is designed to ensure that the National Committees play a leading part in all decision-making instances of the Commission. This enables the widest degree of consensus on standardization work to be reached at an international level.

IEC work is carried out by technical committees, their subcommittees and working groups. Some 200 such committees span virtually all electrotechnical sectors as well as associated disciplines such as terminology, symbols, safety and performance.

The responsibilities of IEC cover the field of electrical and electronic engineering, with all other subject areas being attributed to ISO. When necessary, attribution of responsibility for work programs to ISO or IEC is made by mutual agreement. In specific cases of mutual interest, joint technical bodies or working groups are set up. Common working procedures ensure efficient coordination and the widest possible global application. ISO and IEC have been working to develop joint procedures and formats.

IEC standards are widely adopted as the basis of national or regional electrotechnical standards, and are often quoted in manufacturers' specifications and by users when stating their requirements. This widespread adoption facilitates international trade in the electrical and electronic engineering sectors.

U.S. Participation in IEC

ANSI is the sole U.S. representative to the IEC through the United States National Committee (USNC). Just as ANSI accredits U.S. Technical Advisory Groups (US TAGs) to ISO, it also accredits USNC Technical Advisors (TAs) to IEC. The TA's primary purpose is to develop and transmit, via ANSI, U.S. positions on activities and ballots of the international technical committee. The U.S., through ANSI, is active in 91% of all IEC committees.

Liaisons

The IEC maintains working relationships with some 200 international governmental and non-governmental organizations, particularly with the International Organization for Standardization

(ISO), and increasingly with the International Telecommunication Union (ITU). An initial agreement was signed with ISO in 1976, and ten years later the two bodies established Joint Technical Committee 1 (JTC 1) to cover the vast and expanding field of information technology.

At the regional level, there is a joint working agreement with the European Committee for Electrotechnical Standardization (CENELEC), comprised of 18 national committees of which most are also IEC members, and a cooperation agreement with COPANT, the Pan American Standards Commission.

Close links are also enjoyed with other bodies in non-electrotechnical areas, such as the liaisons with the World Health Organization, the International Labour Organization, the International Organization of Legal Metrology and the International Atomic Energy Agency.

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Chapter 4:

WHO'S WHO IN PRINTING, PUBLISHING AND CONVERTING STANDARDS

There are two standards development committees accredited by the American National Standards Institute (ANSI) within the United States that develop standards specifically for the printing, publishing and converting industry. The Committee for Graphic Arts Technologies Standards (CGATS) develops technical standards and the B65 Committee develops safety standards. ANSI also accredits the U.S. Technical Advisory Group to ISO TC 130 (US TAG to ISO TC 130), which provides the U.S. representation in the work of ISO TC 130 (Graphic Technology), the international committee that develops international graphic arts standards. These committees are described below.

Membership on standards committees is open to anyone having an interest.

To view current rosters and to apply for membership you may download membership applications from <http://www.npes.org/standards/workroom.html>.

U.S. Standards Development Committees

Committee for Graphic Arts Technologies Standards (CGATS)

CGATS was accredited by ANSI in 1989 and is an umbrella committee charged with the overall coordination of graphic technology standards activities and the development of graphic technology standards that meet identified needs of the industry that are not being actively addressed by other groups. In 1994, the work of the IT8 Committee, which developed standards for the exchange of electronic data in graphic arts applications, was merged with the work of CGATS under the administration of CGATS.

CGATS currently is composed of a main committee, an Executive Committee responsible for planning and coordination, five subcommittees (SC) and related task forces (TF) and two special task forces (STF). The subcommittees, along with the US TAG to ISO TC 130, also serve as a pool of U.S. technical experts to continually review relevant work under development in ISO TC 130 for the purpose of forming the official U.S. position on the work. The responsibilities of the CGATS subcommittees are shown below.

Additional information on the work of CGATS can be found in this book:

Chapter 5: The Committee for Graphic Arts Technologies Standards (CGATS), and online at <http://www.npes.org/standards/CGATS.html>.

- Subcommittee 2 - *Plates*
- Subcommittee 3 - *Metrology*
- Subcommittee 4 - *Process Control*
- Subcommittee 5 - *Materials Handling*
- Subcommittee 6 Working Group 1 - *PDF/X*

- Subcommittee 6 Working Group 2 - *Variable Data Exchange*
- Subcommittee 6 Working Group 3 - *Diecutting Data (IT8.6)*
- Subcommittee 9 Working Group 1 – *Package Workflow*
- Subcommittee 9 Working Group 2 – *Package Color*

B65 Committee for Safety Standards

The B65 Committee was accredited by ANSI in 1983, and is charged with the development of safety standards for printing-related equipment. It consists of a main committee and the five subcommittees (SC) listed below.

Additional information on the work of B65 can be found in this book:

Chapter 6: B65 Committee, and online at <http://www.npes.org/standards/B65.html>.

- Subcommittee 1 - *Printing Press Safety*
- Subcommittee 2 - *Bindery Systems Safety*
- Subcommittee 3 - *Bindery Cutting Machines Safety*
- Subcommittee 4 - *Platen Press Safety*
- Subcommittee 6 - *Safety of Ink-Making Equipment*

U.S. Technical Advisory Group (US TAG) to ISO TC 130

As its title suggests, this group is responsible for coordinating participation in the international standards activities of ISO TC 130 (Graphic technology), and in formulating the official U.S. position on TC 130 work. It is made up of the U.S. technical experts who actively participate in the five TC 130 working groups, members of the relevant CGATS and B65 committees, and representatives of many of the U.S. graphic arts companies and organizations who review the work as observers. Membership on the US TAG is open to anyone who has an interest and who is willing to, at a minimum, review and comment on documents coming out of TC 130.

Additional information on the work of the US TAG to TC 130 can be found in this book:

Chapter 7: ISO TC 130 and US TAG to ISO TC 130, and online at <http://www.npes.org/standards/iso.html>.

International Standards

ISO Technical Committee 130, Graphic Technology (ISO TC 130)

ISO TC 130, Graphic Technology, is the committee within ISO that has responsibility for international graphic technology (printing and publishing) industry standards. Its Secretariat is Deutsches Institut für Normung (DIN), the German national standards body. The organization of ISO TC 130 working groups (WG) and task forces (TF) is shown below.

Additional information can be found in this book:

Chapter 7: ISO TC 130 and US TAG to ISO TC 130, and online at <http://www.npes.org/standards/iso.html>.

- Task Force 1 – *Carbon Footprint Issues in Printing*
- Task Force 2 – *Postpress Issues in Printing*
- Working Group 1 - *Terminology*
- Working Group 2 - *Prepress Data Exchange*
- Working Group 2 Task Force 1 - *Revision of ISO 12639 - TIFF/IT*
- Working Group 2 Task Force 2 - *Prepress Data Exchange - PDF/X*
- Working Group 2 Task Force 3 - *Variable Data Exchange -VDX*
- Working Group 3 - *Process Control and Related Metrology*
- Working Group 4 - *Media and Materials*
- Working Group 4 Task Force 1 - *Inks*
- Working Group 5 - *Ergonomics and Safety*

Chapter 5:

THE COMMITTEE FOR GRAPHIC ARTS TECHNOLOGIES STANDARDS (CGATS)

The Committee for Graphic Arts Technologies Standards (CGATS) was formed in 1987 following a year-long assessment of the need for an umbrella standards committee by the Image Technology Standards Board (ITSB) of ANSI, and received ANSI accreditation in 1989. The goal of CGATS is to have the entire scope of printing, publishing and converting technologies represented in one national standardization and coordination effort, while respecting the established activities of existing accredited standards committees and industry standards developers.

CGATS writes standards only where the need exists – no other committee is undertaking the writing.

Thus, in addition to developing standards for the industry, CGATS also provides a vehicle for other industry organizations that have specifications to work under the CGATS "umbrella" to move their work into the standards arena, and have the work further developed and approved as an American National Standard. Several such joint efforts have been undertaken, resulting in the development of an ANSI CGATS standard.

The committee works to improve the efficiency of national standards development, facilitates information exchange, coordinates multi-discipline standards activities and provides liaison for international standards development.

CGATS has standards, either approved or in draft, relating to pallet loading of printed materials, metrology, terminology, plates, process control, electronic transmission of publication ads, digital data exchange, color data definition, design workflow for packaging, and ink and color characterization for packaging. The activities involving digital data exchange and color data definition were activities formerly under the IT8 Committee. Beginning in 1994, that work continued under the administrative structure of CGATS.

The CGATS main committee consists of Participating (voting) members and Observing (non-voting) members.

Work on the standards is done within subcommittees (SC), working groups (WG), or task forces (TF). In accordance with ANSI procedures, all standards undergo a periodic review every five years to determine whether to reaffirm, revise or withdraw the standard.

CGATS meetings and membership are open to anyone having an interest.

Committee documents are available from the CGATS Secretariat, NPES, or online at <http://www.npes.org/standards/CGATS.html>.

You can be involved in standards development!

Membership on CGATS and its subcommittees is open to anyone having an interest. To apply for CGATS membership please use a photocopy of the membership application in this book or download a membership application from <http://www.npes.org/standards/workroom.html>.

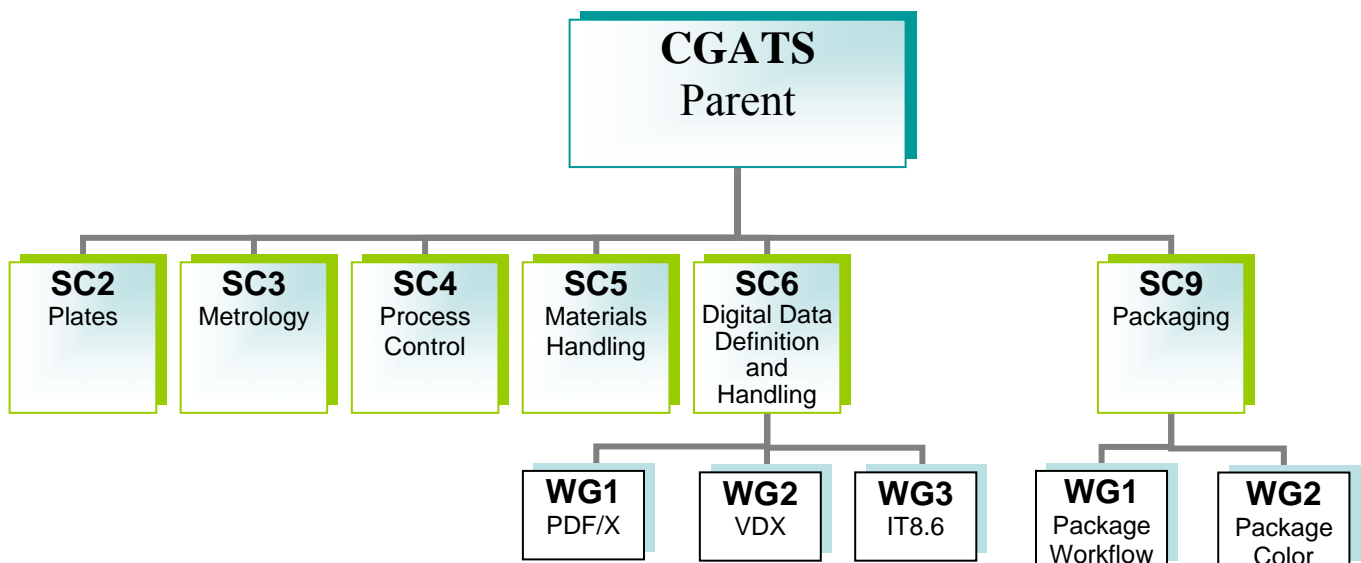
Standards result from extensive technical discussions to find solutions to meet identified needs. Much of the work is developed in face-to-face meetings, supplemented by conference calls and e-mail exchanges. However, if you are not able to travel to and attend meetings, you can still contribute your expertise to the standards development process by reviewing and commenting on documents.

Subcommittees, Working Groups, and Task Forces

- **Subcommittee 2 - Plates** investigates the need for graphic arts printing plate standards, and identifies existing standards/specifications prior to initiating any standards development activity. SC 2 coordinates its work with other standards developers to insure there is no overlapping work. Where plate standards needs exist and are not being met by existing developers, SC 2 will develop these standards through the ANSI consensus process. It also provides input into the related work being done in ISO TC 130 WG4, and helps to formulate the official U.S. position in the area of plate and blanket standards.
- **Subcommittee 3 - Metrology** develops standards for the measurement of optical characteristics (e.g., densitometry, colorimetry, etc.) of graphic arts images and materials. SC 3 also reviews other national and international work in the area of densitometry and metrology that may impact graphic arts, and provides comments when appropriate. SC 3 also functions as an advisory task force to the US TAG to ISO TC 130 in this subject area, and maintains interaction with other U.S. and international organizations in this area.
- **Subcommittee 4 - Process Control** develops standards that support the application of printing process control (e.g., process definition, characterization, analysis, control tools, etc.). SC 4 reviews other national and international work in the area of process control that may impact graphic arts, and provides comments when appropriate. SC 4 also functions as an advisory task force to the US TAG to ISO TC 130 in this subject area, and maintains interaction with other U.S. and international organizations in this area.
- **Subcommittee 5 - Materials Handling** identifies needs relating to handling of materials used in, or produced by, the printing process. Where needs are not currently being met, SC 5 will work through the ANSI consensus process to develop, or cooperate in the development of, consensus standards. Wherever appropriate, approved national and international standards will be utilized.
- **Subcommittee 6 Working Group 1 - PDF/X**, which is developing a set of standards to be used for the electronic exchange of files using Adobe's Portable Document Format (PDF). This work is being done in cooperation with ISO TC 130 WG 2 TF2, and is resulting in a set of ANSI/ISO standards.

- **Subcommittee 6 Working Group 2 - Variable Data Exchange**, which is developing a standard relating to the creation and exchange of documents that combine both database information and variable content. The standard defines the use of content from current design applications and variable information from common database applications.
- **Subcommittee 6 Working Group 3 - Diecutting Data (IT8.6)** maintains IT8.6-2002, Graphic technology - Prepress digital data exchange - Diecutting data (DDES3). First issued in 1991 and revised in 2002, this standard establishes a data exchange format to enable transfer of numerical control information between diecutting systems and between diecutting systems and electronic prepress systems.
- **Subcommittee 9 Working Group 1 - Electronic Design Workflow for Packaging** is developing standard industry practices that encompass the entire packaging workflow, regardless of printing process. This includes the identification of a model, or reference, workflow for the package development process, from the identification of a project through preparation of an approved production file. Although the work defines the set of information that needs to be addressed in a workflow, it allows for variations based on individual needs, and is intended to be used as a reference in the creation of workflow procedures for specific organizations or products.
- **Subcommittee 9 Working Group 2 - Ink and Color Characterization for Packaging** is focusing on the development of a procedure to characterize package printing of standard and non standard process colors, and is attempting to define reference conditions applicable to ranges of package printing. This includes the development of standardized color targets, as well as other tools and guidelines.

**CGATS Structure
(As of 4 March 2009)**



Approved CGATS and IT8 Technical Standards

A current catalog of available Technical and Safety Standards can be downloaded from the NPES website at: <http://www.npes.org/Standards/orderform.html> Copies of these standards can be purchased by contacting the NPES Publications Department, Tel: 703-264-7200; E-mail: orders@npes.org, or by using the Order Form for Standards found on the same page.

CGATS Participants

The following companies and organizations are represented on CGATS, its subcommittees, or both:

Adobe Systems Incorporated
Advanced Decision Sciences
Agfa Graphics N.V.
Airlines Reporting Corporation
ALCAN Packaging Services AG
Alliance Group
Allison Systems Corporation
ALWAN Color Expertise
AmeriKen
Amgraph Packaging Inc.
Apago, Inc.
Apple, Inc.
Arden Software
Arizona State University
Bowling Green State University
Brandimage
CGS Publishing Technologies International
Cimex
Citation Software, Inc.
City University of New York-College of
Technology
Clemson University
Color Sciences, LLC
Dainippon Screen Engineering of America
Dalim Software GmbH
Dalton & Robinson
Datacolor
DCD Advanced Technologies
Diageo
Dieco, Inc.
Dimensional Impressions

Doppelganger L.L.C.
DuPont/Imaging Technologies
Eastman Kodak Company
EastWest Creative
EFI
Elateral Ltd.
Enfocus
Epson America, Inc.
EskoArtwork
EskoArtwork
Flexographic Technical Association, Inc.
Flint Group
FOLDRite
FUJIFILM North America Corporation
Fundacion Gutenberg, Inst. Argentino de Artes G.
Genline Systems, Inc.
Global Graphics Software
grafikAmerica, Inc.
Graphic Arts Technical Foundation
Graphic Packaging Corporation
Graphics Microsystems Inc.
Gravure Association of America
GTI Graphic Technology Inc.
Heidelberg U.S.A.
Henry Wurst, Inc.
Hershey Foods Corporation
Hewlett Packard Company
Highwater Designs
IDEAlliance
Integrated Color Solutions, Inc.
International Paper - Thilmany Division

Int'l Assn of Diecutting & Diemaking
Jonco Die Company Inc.
JUST Normlicht Inc.
Kodak Graphic Communications
Kraft Foods
Lasercut, Inc.
Lexmark International, Inc. CPD
manroland, Inc.
Matthews Packaging Graphics
Mitsubishi Imaging (MPM), Inc.
MooreWallace
NAPIM
National University of Singapore (NUS)
Newline Dies
Newspaper Association of America
Newspaper Vendor Group
NISO
NPES
OneVision, Inc.
Perfect Pallets, Inc.
PFU Limited
Philadelphia Newspapers, Inc.
Piranha, Inc.
Punch Graphix
Quad/Graphics, Inc.
QuadTech, Inc.
Rampage Systems, Inc.
Reality Information Systems
RGB Metrology, LLC
RIT/College of Imaging Arts & Sciences
RMG Consulting
RR Donnelley
Schawk NYC
Society for Imaging Science & Technology
Somerville Packaging
Specialized Packaging Group, Inc.
Specialty Graphic Imaging Association
International
Stratis Corporation
Sun Chemical Corporation
Think121.com
Time, Inc.
Tobias Associates, Incorporated
Transcontinental Printing

Valassis Communications
Vertis Communications
vLogix, Inc.
VPI Color
Wegener
William Fox Munroe, Inc.
Worldcolor
Xerox Corporation
X-Rite, Incorporated
Zwang & Company

Chapter 6:

B65 COMMITTEE

The B65 Committee is a standards-developing committee accredited by the American National Standards Institute (ANSI). It has been in existence since the early 1950's, administered at that time by the National Safety Council and Printing Industries of America. However, in the early 1970's the committee became inactive for some time. The committee was re-activated and re-accredited by ANSI in 1983, under the administration of NPES The Association for Suppliers of Printing, Publishing and Converting Technologies.

The purpose of the B65 Committee is to develop ANSI safety standards for printing presses, bindery machines and other printing equipment. Work relates to the design, arrangement, designation, and color scheme of controls and signaling devices, as well as to guarding and interlocking of guards. Also addressed are other mechanical safety devices, symbology and safe practices as they apply to printing equipment.

As the printing machinery industry becomes more globally oriented, it becomes increasingly important to have uniform international safety standards for the machinery. This allows manufacturers to design and build equipment to a single set of safety standards, regardless of the country of import/export. Thus, the B65 Committee is attempting to coordinate with similar activities in the European community and with other countries through participation in related work in the International Organization for Standardization (ISO).

The B65 Committee provides input to the international activities on issues relating to safety. ISO TC 130, the technical committee for the graphic arts within ISO, has a working group (WG5) that deals with ergonomics and safety. The United States, in the form of NPES, is the convener of this international working group and is responsible for the management of work done by that committee. The B65 Committee provides technical experts to attend the meetings of ISO TC 130 WG 5, and reviews and comments on the international work.

The B65 subcommittee members also serve as advisors to the US TAG (technical advisory group) to ISO TC 130, advising on the U.S. position on international safety standards. Much of the B65 work is now being incorporated into safety standards being developed by ISO TC 130, and the international work is being incorporated into the revisions of the B65 standards.

In 1983, NPES became the Secretariat and reorganized the committee in order to revise a safety standard for printing press drive controls (B65.1). This work has been followed by the development of other safety standards for printing and bindery equipment.

B65 meetings and membership are open to anyone having an interest. Committee documents are available from the B65 Secretariat, NPES, or online at <http://www.npes.org/standards/B65.html>.

In accordance with ANSI procedures, all standards undergo a periodic review every five years to determine whether to reaffirm, revise or withdraw the standard. All work on the standards is done within subcommittees (SC), with the responsibilities divided in the following manner:

- **Subcommittee 1 - Printing Press Safety** is concerned with the development of safety standards for printing presses.
- **Subcommittee 2 - Bindery Systems Safety** is concerned with the development of safety standards for binding and finishing systems.
- **Subcommittee 3 - Bindery Cutting Machines Safety** is concerned with safety standards for machines with cutting knives, including guillotine cutters and bindery trimmers.
- **Subcommittee 4 - Platen Press Safety** is concerned with safety standards for the design and use of stand-alone platen press systems intended for die-cutting, embossing, foil stamping and/or printing.
- **Subcommittee 6 - Safety of Ink-Making Equipment** is concerned with the revision of B65/NAPIM 177.1, Safety standard - Three-roller printing ink mills and B65/NAPIM 177.2, Safety standard - Printing ink vertical post mixers.

You can be involved in standards development!

Membership on B65 and its subcommittees is open to anyone having an interest. To apply for B65 membership please use a photocopy of the membership application in this book or download a membership application from <http://www.npes.org/standards/workroom.html>.

Standards result from extensive technical discussions to find solutions to meet identified needs. Much of the work is developed in face-to-face meetings, supplemented by conference calls and e-mail exchanges. However, even if you are not able to travel and attend meetings, you can contribute your expertise to the standards development process by reviewing and commenting on documents.

Approved B65 Safety Standards

A current catalog of available Technical and Safety Standards can be downloaded from the NPES website at: <http://www.npes.org/Standards/orderform.html> Copies of these standards can be purchased by contacting the NPES Publications Department, Tel: 703-264-7200; E-mail: orders@npes.org, or by using the Order Form for Standards found on the same page.

B65 Participants

The following companies and organizations are represented on the B65 Committee, its subcommittees, or both:

ABB, Inc.
Akiyama International Corporation (USA)
Allison Engineering Associates
Arandell-Schmidt Corporation

Autographic Services, Inc.
Baumfolder Corporation
Bobst Group North America
Brown Printing Company

Buhler AG
C&P Microsystems
Colorcon, Inc.
Colter & Peterson, Inc.
Dow Jones & Company, Inc.
Dri-Tec Mfg Group LLC
Emerson/Control Techniques/Fincor
Engineering Systems Inc.
EXAKT Technologies, Inc.
Ferro Corp.
Flexible Packaging Association
Flint Group
Goss International Americas, Inc.
Hallmark Cards
Halm Industries Company, Inc.
Heidelberg U.S.A.
Heidelberger Druckmaschinen AG
ILF Technologies, LLC
Industrial Technology Services
Int'l Assn of Diecutting & Diemaking
INX International Ink Co.
Keith Machinery Corp.
Komori America Corporation
Los Angeles Times
manroland, Inc.
MBM Corporation
McCain Bindery Systems, Inc.
Media General, Inc.

MEGTEC Systems, Inc.
Muller Martini Corp.
My Press Needs LLC.
NAPIM
Newspaper Association of America
North American Cerutti Corp.
NPES
Pitney Bowes
Precision Cutter Systems, Inc.
Printing Industries of America
Quad/Graphics Inc.
QuadTech, Inc.
Rockwell Automation
RR Donnelley
Shorewood Packaging
Standard Paper Box Machine Company Inc.
Systems Technology Inc.
The Challenge Machinery Company
The Dispatch Printing Company
The New York Times
The Washington Post
Thomson National Press Company
U.S. Government Printing Office
Underwriters Laboratories Inc.
US Ink Corporation
Western Printing Machinery
Worldcolor
Worzalla Publishing Co.

You can get further information on the B65 committee and download a membership application by visiting the Standards Workroom at <http://www.npes.org/Standards/workroom.html>

Chapter 7:

ISO TC 130 AND US TAG TO ISO TC 130

Background

The International Organization for Standardization Technical Committee 130, Graphic Technology (ISO TC 130), is the international technical committee of ISO that develops International Standards relating to printing, publishing and the graphic arts industry. Information about ISO can be found in **Chapter 3: Who are ANSI, ISO & IEC?**

ISO TC 130 Organization

The Secretariat for ISO TC 130 is Deutsches Institut für Normung (DIN), the German national standards body. Under the agreements made at the 1989 and 1990 Plenary meetings, TC 130 is organized into five working groups (WG) with convener and assistant convener responsibilities assigned to national bodies, and task forces (TF) headed by a chairperson, as follows:

- **ISO TC130 TF1 – Carbon Footprint Issues in Printing:**
Convener – Brunner (U.K.)
- **ISO TC 130 TF2 – Postpress:**
Convener – Xiaohui (China)
- **ISO TC130 WG1 – Terminology:**
Convener – Horn (U.K.); Assistant Convener – Open
- **ISO TC130 WG2 – PREPRESS DATA EXCHANGE:**
Convener – McDowell (U.S.); Assistant Convener – Urabe (Japan)
 - **ISO TC130 WG2/TF1 – Revision of ISO 12639 (TIFF/IT):**
Chair – Kelly (U.S.)
 - **ISO TC130 WG2/TF2– PDF/X:**
Chair – Isaacs (U.S.)
 - **ISO TC130 WG2/TF3– Variable Data Exchange (PDF/VT):**
Chair – Donahue (U.S.)
- **ISO TC130 WG3– PROCESS CONTROL AND RELATED METROLOGY:**
Convener – Kraushaar (Germany); Assistant Convener – Warter (U.S.)
- **ISO TC130 WG4 – MEDIA & MATERIALS:**
Convener – Bertholdt (Germany); Assistant Convener – Zawacki (U.S.)
 - **ISO TC130 WG4/TF1 – Inks:**
Chair – Bertholdt (Germany)
- **ISO TC130 WG5 – SAFETY & ERGONOMICS:**
Convener – Smythe (U.S.); Assistant Convener – Open

In addition, TC 130 participates in three joint working groups (JWG) as follows:

- **ISO TC130 JWG 7 – COLOR MANAGEMENT: (JWG ISO/TC 130 and ICC)**
Convener: McDowell (U.S.)
- **ISO TC130 JWG 8 - REVISION OF ISO 13655 (Joint with TC 42 - Photography)**
Convener: Kraushaar (Germany)
- **ISO TC130 JWG 9 – DEVELOPMENT of ISO 12640-5 (Joint with TC 42 – Photography)**
Convener: McDowell (U.S.)

ISO TC 130 Working Groups and Technical Experts

ISO Technical Committees often establish working groups for specific tasks. A working group reports to its parent committee through the working group convener. A working group is comprised of a number of individually appointed experts brought together to deal with the specific task allocated to the working group.

ISO TC 130/JWG 7 - Colour Management

The International Color Consortium (ICC) entered into discussions with ISO TC130 regarding an interest in having the ICC specification become an ISO standard. TC 130 responded by having a new work item approved for this project. A formal agreement was made between the ICC and ISO identifying the responsibilities and process for the development of ICC specifications as ISO standards, and the distribution rights of such documents.

The ISO Joint Working Group (ISO/TC130/JWG 7 – Colour Management) was formed to handle this work with other ISO Technical Committees invited to participate. TC 130 is the administrator of the joint working group. For more information on the ICC, see **Chapter 8: International Color Consortium**.

ISO TC 130 Joint Work with ISO TC 171 SC2 JWG 5

TC 130 is one of 4 ISO Technical Committees involved in the work of an ISO Joint Working Group – ISO/TC 171 SC 2 JWG 5 (Document management applications, Application issues, PDF/A) – to develop a standard that defines the use of PDF to create an archival format for long-term retention of documents. ISO 19005-1, *Document management - Electronic document file format for long-term preservation - Part 1: Use of PDF (PDF/A)*, is being developed jointly by ISO TC 171 SC2, ISO TC 130 (Graphic technology), ISO TC 42 (Photography) and ISO TC 46 SC 11 (Instrumentation and documentation, Archives/records management).

Association for Information and Image Management (AIIM International) is the administrator of the joint working group. A list serve has been set up by AIIM International and interested persons can sign up for the committee at <http://www.aiim.org/pdfa>.

The Secretariat of a Technical Committee (or Subcommittee) is responsible for:

- Monitoring, reporting and ensuring the active progress of the work of the committee
- Preparing and circulating committee drafts, and the treatment of comments
- Preparing meetings (of the committee or subcommittee) and recording the decisions made at meetings
- Distributing minutes, reports, etc.

United States Technical Advisory Group (US TAG) Membership

Membership in the US TAG to ISO TC 130 is open to all U.S. organizations and individuals who have an interest, and who may be directly and materially affected by the standards work. There is no membership fee; however, members are expected, at a minimum, to review and comment on documents under development that fall into their areas of interest and expertise. The current roster and a US TAG application form can be found in the Standards Workroom of the NPES website at <http://www.npes.org/Standards/workroom.html>. Please direct any US TAG membership questions to NPES Assistant Director of Standards Programs, Debbie Orf at dorf@npes.org or USTAG chair, David McDowell at mcdowell@npes.org.

The US TAG and its Secretariat are responsible for:

- Initiating and approving U.S. proposals for new work items or working drafts for submission to an ISO technical committee
- Determining the U.S. position on ISO draft standards, reports, questionnaires, agenda items, etc.
- Providing adequate U.S. representation to ISO committee meetings
- Nominating U.S. technical experts to serve on ISO subcommittees and working groups
- Advising or making recommendations to ANSI regarding administrative issues relating to the ISO Technical Committee

Stages of the Development of International Standards

An international standard is the result of an agreement between the member bodies of ISO. It may be used as such, or may be implemented through incorporation in national standards of different countries.

All International Standards are reviewed at least once every five years by the responsible technical committees. A majority of the P-members of the technical committee decides whether an International Standard should be confirmed, revised or withdrawn.

International standards are developed by ISO technical committees (TC), subcommittees (SC) and working groups (WG) by a six step process. If a document with a certain degree of maturity is available at the start of a standardization project, for example a standard developed by another organization, it is possible to omit certain stages. In the so-called fast-track procedure, a document is submitted directly for approval as a Draft International Standard (DIS) to the ISO member bodies (DIS, stage 4) or, if the document has been developed by an international standardizing body recognized by the ISO Council, as a Final Draft International Standard without passing through previous stages. The following is a summary of each of the six stages:

- **Stage 1: Proposal stage (New Proposal - NP)** The first step in the development of an International Standard is to confirm that a particular International Standard is needed. A new work item proposal (NWIP) is submitted for vote by the members of the relevant Technical Committee to determine the inclusion of the work item in the program of work. The proposal is accepted if a majority of the participating (P) members of the Technical Committee vote in favor, and at least five P-members declare their commitment to participate actively in the project. At this stage, a project leader responsible for the work item is normally appointed.
- **Stage 2: Preparatory stage (Working Draft - WD)** A working group of experts prepares working drafts of the standard. Successive working drafts may be considered until the working group is satisfied that it has developed the best technical solution to the problem being addressed. At this stage, a Committee Draft (CD) is forwarded to the Technical Committee for the consensus-building phase.
- **Stage 3: Committee stage (Committee Draft - CD)** Once a Committee Draft is received by the TC Secretariat, it is registered by the ISO Central Secretariat. It is distributed to the P-members of the TC for a 3-month ballot. Successive committee drafts may be considered until consensus is reached on the technical content, after which the text is finalized for submission as a Draft International Standard (DIS).
- **Stage 4: Enquiry stage (Draft International Standard - DIS)** The Draft International Standard (DIS) is circulated to all ISO member bodies by the ISO Central Secretariat for voting and comment within a period of five months. It is approved for submission as a FDIS (see Stage 5) if a two-thirds majority of the P-members of the TC/SC are in favor and not more than one-quarter of the total number of votes cast are negative. If the approval criteria are not met, the text is returned to the originating TC/SC for further study and a revised document will be circulated for voting and comment as a DIS. DIS approval requires two-thirds of the votes cast by the P-members are affirmative, and no more than one-fourth of the votes cast are negative.
- **Stage 5: Approval stage (Final Draft International Standard - FDIS)** The Final Draft International Standard (FDIS) is circulated to all ISO member bodies by the ISO Central Secretariat for a final Yes/No vote within a period of two months. If technical comments are received during this period, they are no longer considered at this stage, but are registered for consideration during a future revision of the International Standard. The text is approved as an International Standard if a two-thirds majority of the P-members of the TC/SC are in favor and not more than one-fourth of the total number of votes cast are negative. If these approval criteria are not met, the standard is referred back to the originating Technical Committee for reconsideration in light of the technical reasons submitted in support of the negative votes received. This stage may be omitted if there are no negative votes at the Enquiry (DIS) stage.
- **Stage 6: Publication stage (Approved International Standard - IS)** Once a final Draft International Standard has been approved and all editorial changes have been made, if necessary, the final text is sent to the ISO Central Secretariat, which publishes the International Standard.

Practical Implications for U.S. Participation

How Individuals Participate and Vote

The preceding material provides information on the structure and relationship of ISO TC 130 and the US TAG to ISO TC 130. However, the real issue in simple terms is, what does it mean to those willing to be involved?

- Participation in the US TAG is by organization or as an individual consultant. Members vote as individuals on behalf of their sponsoring organizations.
- Technical Experts to the meetings are appointed by the US TAG, and the TC 130 Secretariat is advised of those experts by ANSI.
- For all ISO and ISO TC 130 ballots, including votes taken at plenary meetings, each member country is allowed one vote. Therefore, a single national position must be coordinated through the US TAG.
- Determination of the U.S. position on any issue at the Technical Committee level (either to respond to a mail ballot or to prepare for meetings) is accomplished by solicitation of comments through TAG members who represent affected organizations. The TAG chair and Secretariat will also solicit input from other organizations within the industry, if appropriate. The ANSI, CGATS and B65 Committee members also provide input to the development of the U.S. position.
- Note, however, that participation in working groups is by individual technical experts appointed by the TAG. Within working groups, each technical expert has a vote. The U.S. technical experts have a responsibility to keep the TAG informed of the progress and activities of the working group.
- While the Secretariat of the TAG and the Technical Committee Secretariat will be supportive of the working groups, the meetings and administration of the working group are the responsibility of the appointed convener and assistant convener.

Coordination by the US TAG

In regards to membership participation and working group assignments, the following practices are being implemented to support the ANSI procedures.

- The Secretariat will review participation in the activities of the TAG (attendance at meetings of the TAG, participation in plenary or working group meetings, response to ballots and other communications from the TAG) and will drop from membership those members who are non-responsive.
- The Secretariat will seek to insure that all organizations represented in the active work of TC 130, or affected by the work of TC 130, are represented on the TAG by either experts or observers.

- Before appointment as a technical expert to a working group, individuals will be expected to commit to ongoing active participation through correspondence and attendance at meetings. Casual attendance at meetings by others will be as an observer or in a support status.
- One U.S. technical expert for each working group will be asked to take on the additional responsibility of coordinating the activities of the U.S. experts in that working group and informing the TAG of the activities of the working group. This will include being sure that all U.S. technical experts, the TAG chair, and the Secretariat receive copies of all working group documents.
- The TAG Secretariat will circulate TC 130 documents and information to TAG members. It will assist U.S. technical experts in circulating selected working group documents to the TAG and to all U.S. technical experts.
- The TAG Secretariat will assist the U.S. working group coordinators in maintaining a list of interested persons who should be kept informed of the activities of the working group and who can provide technical support to the technical experts. However, distribution of working group documents to technical experts and interested persons will be the responsibility of the working group coordinator noted above, with support from the TAG Secretariat.
- The TAG Secretariat and Chair will maintain a complete file of all technical committee and working group numbered documents to be available as a resource to any affected party within the U.S. industry.

Chapter 8:

CONSORTIA

INTERNATIONAL COLOR CONSORTIUM® (ICC)

The International Color Consortium (ICC) was established in 1993 by eight industry vendors for the purpose of creating, promoting and encouraging the standardization and evolution of an open, vendor-neutral, cross-platform color management system architecture and components.

The outcome of this co-operation was the development of the ICC profile specification. The intent of the International Color Consortium profile format is to provide a cross-platform device profile format. Device profiles can be used to translate color data created on one device into another device's native color space. The acceptance of this format by operating system vendors allows end users to transparently move profiles and images with embedded profiles between different operating systems. This permits tremendous flexibility to both users and vendors. For example, it allows users to be sure that their image will retain its color fidelity when moved between systems and applications. Furthermore, it allows a printer manufacturer to create a single profile for multiple operating systems.

The Chairman of the ICC is William Li of Kodak Graphic Communications Canada Company. The Vice Chairman is Jack Holm. Phil Green of the London College of Communication is the Technical Secretary. NPES The Association for the Suppliers of Printing, Publishing and Converting Technologies serves as the Administrative Secretariat.

See the following page for a complete list of International Color Consortium members. Additional information on the ICC is available at <http://www.color.org>.

ISO TC 130/JWG 7 - Colour Management

The International Color Consortium (ICC) entered into discussions with ISO TC130 regarding an interest in having the ICC specification become an ISO standard. TC 130 responded by having a new work item approved for this project. A formal agreement was made between the ICC and ISO identifying the responsibilities and process for the development of ICC specifications as ISO standards, and the distribution rights of such documents.

The ISO Joint Working Group (ISO/TC130/JWG 7 – Colour Management) was formed to handle the work with other ISO Technical Committees invited to participate. TC 130 is the administrator of the joint working group. For more information on TC 130, see **Chapter 7: ISO TC 130 and US TAG to ISO TC 130**.

ICC Members

FOUNDING MEMBERS

Adobe Systems, Inc.
Agfa Graphics N.V.
Apple Computer, Inc.
Eastman Kodak Co.
Microsoft Corp.

REGULAR MEMBERS

Advanced Color Management Solutions
Albert Printing Technology Associates, Inc.
ALWAN COLOR Expertise
Artifex Software, Inc.
Barbieri Electronic
basIColor GmbH
Binuscan
Canon Development Americas, Inc.
CGS Publishing Technologies International
GmbH
Dainippon Screen
Electronics and Telecommunications
Research Institute
EskoArtwork
FFEI, LTD.
Fujifilm Corp.
Fuji Xerox Co., Ltd.
Fujitsu Laboratories, Ltd.
Global Graphics Software, Inc.
Hallmark
Heidelberger Druckmaschinen AG
Hewlett Packard
Integrated Color Solutions, Inc.
ITT Industries
Konica Minolta Holdings, Inc.
Kyocera Mita Corp.
Lexmark International, Inc., PS&SD
Lexmark International, Inc., CPD
NEC Corp.
Nikon Corp.

Nokia Corp
OCÉ Print Logic Technologies S.A.
Onyx Graphics Corp.
Panasonic Corporation
R. R. Donnelley
Ricoh Americas Corporation
Sappi Fine Paper
Seiko EPSON Corp.
Sharp Laboratories of America, Inc.
Sony Corp.
Sun Chemical Corp.
System Brunner AG
The Math Works, Inc.
Toppan Printing Co., Ltd.
Toshiba America Business Solutions
Vertis Communications
Worldcolor
Xerox Corp.
X-Rite, Inc.
Zoran Corp.

HONORARY MEMBERS

Dalarna University
EPFL
FOGRA Graphic Technology Research
Association
London College of Communication
Printing Industries of America
Rochester Institute of Technology
Ryerson University

INDIVIDUAL MEMBERS

Homann, Jan-Peter
Ronald, Edmund
Kai-Uwe Behrmann
Jack Holm
Eric Walowit

THE INTERNATIONAL COOPERATION FOR THE INTEGRATION OF PROCESSES IN PREPRESS, PRESS AND POSTPRESS (CIP4)

CIP4 is an international association located in Switzerland. The purpose of the association is to encourage computer based integration of all processes that have to be considered in the graphic arts industry, in particular the specification of standards.

The International Cooperation for the Integration of Processes in Prepress, Press and Postpress (CIP4) is the successor of CIP3, which started in 1995 as a joint initiative of vendors for the graphical arts industry. Since then CIP3 has developed the Print Production Format which is today implemented in many applications.

CIP4 is about to develop and promote vendor independent standards for the graphic arts industry, such as the new Job Definition Format (JDF).

CIP4 runs several working groups in order to develop new extensions of JDF and to discuss future use cases. This is intended to be an ongoing process. Currently CIP4 is running the following working groups:

- Advertising / Magazine publishing
- Color Workflow
- Device capability description
- Device messaging / Job tracking
- eCommerce
- Finishing
- Gravure
- Newspaper
- Packaging & Label
- Process resources and definitions
- Tools & Infrastructure
- Use cases / Compliance
- Variable Data
- Web/Rotary printing

See the following pages for a complete list of CIP4 members. Additional information on CIP4 can be found at <http://www.cip4.org>.

CIP4 Members

Partner Members

Adobe
Agfa Graphics
Eastman Kodak Company
EFI
Heidelberger Druckmaschinen AG
Hewlett-Packard
Hiflex
InfoPrint Solutions Company
Koenig & Bauer AG
manroland
Müller Martini
Quark Inc.
Ricoh Corporation
Xerox

Full Members

ACCHSH
Admera Software AB
Akiyama International Co., Ltd.
Apago, Inc.
Applify.com
Arden Software Limited
Art Scanner Service Co., Ltd.
arvato systems GmbH
Avanti Computer Systems Ltd.
B+B Informatica S.r.l.
B.U.G., Inc.
Baldwin Technology Company
BeanStalk / Cor da Imagem
Bobstgroup
C & P Microsystems
callas software gmbh
Canon Inc.
Cerm nv
CGS Publishing Technologies International
CICERO Stapro Group, Ltd.
Compose System Limited
Consultores Asociados S.L.
CRC Information Systems, Inc.
Daeho Machinery Co.
Dalim Software
DIL Digital Information Ltd.

DiMS! organizing print
diron GmbH & Co. KG
dots Software GmbH
Dr. Lauterbach & Partner GmbH
DuPont de Nemours (Deutschland) GmbH
Duplo Corporation
Dynamgram
EAE Ewert Ahrensburg Electronic GmbH
ECCOFFI Software
Edigit International SRL
eltromat GmbH
Esko Artwork
FFEI Ltd.
Founder Electronics
Fuchigami Systems Co., Ltd.
Fuji Xerox Co., Ltd.
FUJIFILM Corporation
GamSys Software
Global Graphics Software
Globe-Tek Corporation
GMG GmbH & Co. KG
Goss International
Graficonn AS
GTB Co., Ltd.
Hamada Printing Press, Ltd.
Hell Gravure Systems GmbH & Co. KG
Horizon International Inc.
Image Solutions Inc.
India Metamation Software Private Limited
Infinity Digital, LLC
INFOSYSTEMS S.A.
Insad Grafisch b.v.
Integration X
Intraprint Software, Inc.
Itotec Co., Ltd.
ixact GmbH
i-teba
Kabushiki-Kaisya Tosbac Systems
KingStar Technology
Kolbus
Komori
Konica Minolta Business Technologies, Inc.
Konica Minolta Medical & Graphic, Inc.

Krause-Biagosch GmbH
LECTOR Computersystems GmbH
LithoTechnics Pty Limited
Logica Sisterni sri
Logica Suomi Oy
Mathias Bauerle GmbH
MBO Maschinenbau Oppenweiler Binder GmbH & Co.
KG
MDC Max Dätwyler AG
Megalith Softwareproduktions GmbH
Metatechno Inc.
Metrics Sistemas de Informacao
Mitsubishi Heavy Industries
Mitsubishi Paper Mills Ltd.
Monigraf S.r.l.
Monorhythm NT, LLC
MPS Graphics
Nagai Machine Mfg. Co.,Ltd.
NASTech, Inc.
NEC Nexsolutions, Ltd.
Nihon Seizuki Kogyo Co., LTD
NovaVision Software a/s
NT-ware Systemprogrammierung GmbH
Objectif Lune Inc.
Océ
Olive inc.
OneVision Software Entwicklungs GmbH & Co.
KG
Optimus
Perfecta Schneidemaschinenwerk GmbH Bautzen
Pitney Bowes
Polar-Mohr
Polkadots Software, Inc.
Pragma Informationsystems GmbH
Press Support B.V.
Press-sense LTD
Printable
Printplus
Prism Group Holdings Ltd
proseco software GmbH
Proxima
PSik Solutions Ltd.
Punch Graphix International
QuadTech, Inc.
Quite Software Ltd.

Rampage Systems Inc.
RECMi Industrie
RHAPSO GRAPHISOFT
Rogler Softwarelösungen OEG
Ryobi
S. Ten Nines Kyoto Co., Ltd.
Sakurai Graphic Systems
SAP Graphics Arts
Screen
Shanghai Huatai Digital Control Co., Ltd.
Shinohara Machinery Company
SHOEI Machinery Mfg. Co., Ltd.
Shuttleworth Business Systems
Simutek AB
SISTRADÉ – Angulusridet Informática SA
SITMA S.p.A.
Soft Solutions, Inc.
ssb Software - Service und Beratung GmbH
Standard Register
Systeemhuis Compri
System Brunner AG
Technique Group
Tharstern Ltd
TNR Software BV
Tokyo Kikai Seisakusho, LTD.
Ulrich Bense GmbH
Ultimate Technographics Inc.
Wohlenberg
Zhejiang Guowang Printing Machinery Co.,
LTD.

Associate Members

1PRIME concept
Accurate Printing
Agir Graphic
Allesio Ing. Saraceno
Alpina Druck GmbH
American Stationery Company
B+O ltd
Bergische Universität-GH Wuppertal
Berglund Consult
Berlin Industries
Bluestar Print Group
BrobyGrafiska Utbildning
Carl Stock Consulting

Centro Tecnológico CIT
Certified Ad Services
Codaf Ltd.
CW Niemeyer Druck GmbH
Dai Nippon Printing Co., Ltd.
Daneels Grafische Groep
Danish School of Media and Journalism
Darwill
Data Support Pty Ltd.
De Budelse bv
Democrat Printing & Lithographing Co.
Dils nv
Drogowiec-PL sp. z o.o.
Dürer Printing House Ltd.
EC2i Limited
Edit d.o.o.
Edwards Brothers, Inc.
EUPRIMA European Print Management Assn.
European Parliament
European Rotogravure Association (E.R.A.)
e.V.
Excell Technologies cc
F.E.Burman Limited
fixyourownbindery
Flexographic Technical Association
FOT Imprimeurs
Fraunhofer IGD
Fresh Media Group
Fry Communications, Inc.
Global Workflow Solutions
GLS Companies
Goteborgstryckeriet AB
Graphco
Grasl Druck und Neue Medien
Hochschule der Medien, Stuttgart
Hochschule für Technik, Wirtschaft und Kultur
(FH) Leipzig
Ilte S.p.A.
ime
Impressed GmbH
Independent Printing Company Inc.
Infographic Consultancy
Inform P. Lykos SA
infowerk ag
Institute for Print and Media Technology

Instituto de Artes Graficas Tajamar
Interak Printing House
IRD
Itella Information Oy
J.S. McCarthy Printers
Janoschka GmbH
Japan Association of Graphic Arts Technology
Japs-Olson Company
Keim GmbH
Kenniscentrum GOC
Langebartels & Jurgens Druckereisgesellschaft
mbH
Leo Paper Bags Manufacturing Ltd.
Lorini Arti Grafiche srl
M.A.G. Hartmann, S.A.
m3printing.com
Malloy Incorporated
Marcus Wiebcke Unternehmensberatung
MCG Graphics Limited
Medit Consult Aps
MeMIC
Mercury Print Productions, Inc.
Michael Mittelhaus
Miguel Menéndez Consulting
Mimeo.com, Inc.
MOHN Media
Mohndruck GmbH
Nahan Printing Inc.
NAVIX Co., Ltd.
Network PDF Inc.
Newspaper Association of America
North Star Printing
Norwegian Institute of Graphic Media
Notitium AB
novaconcept schorsch
NPES
Palmer Printing Company
Paradigm Graphic Arts Consulting, Inc.
Parzeller Druck- und Mediendienstleistungen
GmbH & Co. KG
Paul Albrechts Verlag GmbH
Peracto Solutions
Pierre J. Ranger
Pragati Offset Pvt. Ltd.
Pragmeta

PrePress Consulting Stephan Jaeggi
Prinovis Nürnberg GmbH & Co. KG
PrintCity GmbH & Co KG
PrintCom Consulting Group
Printechno Inc.
Printing Industries Association of Australia
Printing Industries of America
Procograf
Publishers Printing Co.
QP Printing Ltd.
Quebecor World Inc.
Rainbow Print Ltd
Reischling Press Inc.
Reset Grafische Medien GmbH
Rex Three, Inc.
Roularta Media Group
Ryerson University
Salt Lake Printing Division - LDS church
Schilling IT-Consult
Schultz Grafisk
Southern Colour (Vic) Pty Ltd
Star Publishing GmbH
Swissprinters AG
TAGA ITALIA
Tehran University of Art
Tetra Pak Carton Ambient
Tetterode Nederland bv
The John Roberts Company

The Oldham Group
The Sheridan Group
Thieme ICT Services
Thomson-Shore Inc.
Toppan Printing Co., Ltd.
Turning Point Integration Limited
Tursack Inc
types GmbH
V-TAB Västerås AB
Valassis
Varigrafica Alto Lazio
Vega Colour Group
Verband der Schweizer Druckindustrie
VIGC
Vogt-Schild Druck AG
VTT
Walhallanet Peter Sturm e.k.
Williamson Printing Corp.
Wyndeham Heron Ltd
ZIPCON Consulting Germany GmbH
Zwang & Company

Appointed

IDEAlliance
Ifra
IPA – The Association of Graphic Solutions
Providers
PODi

PRINTING, PUBLISHING AND CONVERTING ASSOCIATIONS AND ORGANIZATIONS

UNITED STATES LISTINGS

American Forest and Paper Association (AFPA)

1111 19th Street NW, Suite 800
Washington, DC 20036
Tel: (202) 463-2700 or (800) 878-8878
Fax: (202) 463-2471
E-mail: info@afandpa.org
www: <http://www.afandpa.org>

American Institute of Graphic Arts (AIGA)

164 Fifth Avenue
New York, NY 10010
Tel: (212) 807-1990
Fax: (212) 807-1799
E-mail: comments@aiga.org
www: <http://www.aiga.org>

American Printing History Association (APHA)

PO Box 4519
Grand Central Station
New York, NY 10163-4519
E-mail: scrook@printinghistory.org
www: <http://www.printinghistory.org/index.html>

American Society for Testing and Materials

100 Barr Harbor Drive
West Conshohocken, PA 19428
Tel: (610) 832-9500
Fax: (610) 832-9555
E-mail: webmaster@astm.org
www: www.astm.org/

Association of American Publishers, Inc. (AAP)

71 Fifth Avenue
2nd Floor
New York, NY 10003-3004
Tel: (212) 255-0200
Fax: (212) 255-7007
or
50 F Street, NW
Suite 400
Washington, DC 20001-1564
Tel: (202) 347-3375
Fax: (202) 347-3690
E-mail: sbeer@publishers.org
www: <http://www.publishers.org>

Assn. of College and University Printers (ACUP)

Lehigh University - Mountaintop Campus
118 ATLASS Drive, Building J
Bethlehem, PA 18015
Tel: (610) 758-3108
E-mail: nam3@lehigh.edu
www: <http://printing.fsu.edu/ACUP/index.html>

Association of Graphic Communications (AGC)

An affiliate of Printing Industries of America
330 Seventh Avenue, 9th Floor
New York, NY 10001-5010
Tel: (212) 279-2100
Fax: (212) 279-5381
E-mail: info@agcomm.org
www: <http://www.agcomm.org>

Assn. for Information and Image Management (AIIM)

1100 Wayne Avenue, Suite 1100
Silver Spring, Md 20910
Tel: (301) 587-8202 or (800) 477-2446
Fax: (301) 587-2711
E-mail: aiim@aiim.org
www: <http://www.aiim.org>

Binding Industries Association International

100 Daingerfield Road
Alexandria, VA 22314
Tel: (703) 519-8137
Fax: (703) 548-3227
E-mail: bparrott@piagatf.org
www: <http://www.gain.net>

Book Industry Study Group (BISG)

370 Lexington Avenue, Suite 900
New York, NY 10017
tel: 646-336-7141
fax: 646-336-6214
E-mail: info@bisg.org
www: <http://www.bisg.org>

Book Manufacturers Institute, Inc. (BMI)

Two Armand Beach Drive., Suite 1B
Palm Coast, FL 32137-2612
Tel: (386) 986-4552
Fax: (386) 986-4553
E-mail: info@bmibook.com
www: <http://www.bmibook.com>

Business Forms Management Assn. (BFMA)

1901 N. Roselle Road, Suite 920
Schaumburg, IL 60195
Ph: (847) 885-1839
Fax: (847) 885-8393
E-mail: bfma@bfma.org
www: <http://www.bfma.org>

Data Interchange Standards Association (DISA)

7600 Leesburg Pike, Suite 430
Falls Church, VA 22043
Tel: (703) 970-4480
Fax: (703) 970-4488
E-mail: info@disa.org
www: <http://www.disa.org/>

Digital Distribution of Advertising for Publications Association (DDAP)

100 Daingerfield Road.
Alexandria, VA 22314
Tel: (703) 639-7785
Fax: (703) 639-7786
E-mail: info@ddap.org

Digital Printing and Imaging Association (DPI)

10015 Main Street
Fairfax, VA 22031-3489
Tel: (703) 385-1335
Fax: (703) 273-0456
E-mail: sgia@sgia.org
www: <http://www.dpia.org>

Document Management Industries Association (DMIA)

433 East Monroe Avenue
Alexandria, VA 22301
Tel: (703) 836-6232
Fax: (703) 836-2241
E-mail: dmia@dmia.org
www: <http://www.dmia.org>

Envelope Manufacturers Association (EMA)

500 Montgomery Street, Suite 550
Alexandria, VA 22314-1565
Tel: (703) 739-2200
Fax: (703) 739-2209
E-mail: kmoses@envelope.org
www: <http://www.envelope.org>

Flexible Packaging Association (FPA)

971 Corporate Boulevard, Suite 403
Linthicum, MD 21090
Tel: (410) 694-0800
Fax: (410) 694-0900
E-mail: fpa@flexpack.org
www: <http://www.flexpack.org>

Flexographic Technical Association (FTA)

900 Marconi Avenue
Ronkonkoma, NY 11779-7212
Tel: (631) 737-6020
Fax: (631) 737-6813
E-mail: memberinfo@flexography.org
www: <http://www.flexography.org/>

Foil Stamping & Embossing Assn. (FSEA)

2150 SW Westport Drive, Suite 101
Topeka, KS 66614
Tel: (785) 271-5816
Fax: (785) 271-6404
E-mail: sales@fsea.com
www: <http://www.fsea.com>

Graphic Arts Education & Research Foundation (GAERF)

1899 Preston White Drive
Reston, VA 20191-4367
Tel: (703) 264-7200 or (866) 381-9839
Fax: (703) 620-3165
E-mail: gaerf@npes.org
www: www.gaerf.org

Graphic Communication International Union (GCIU)

1900 L Street NW
Washington, DC 20036-5002
Tel: (202) 462-1400
Fax: (202) 721-0600
E-mail: webmessenger@gciu.org
www: <http://www.gciu.org>

Gravure Association of America (GAA)

75 W. Century Rd.,
Paramus, NJ 07652
Tel: (585) 436-2150
Fax: (585) 436-7689
E-mail: info@gaa.org
www: <http://www.gaa.org>

IDEAlliance (International Digital Enterprise Alliance)

1421 Prince St., Suite 230
Alexandria, VA 22314-2805
Tel: (703) 837-1070
Fax: (703) 837-1072
E-mail: info@idealliance.org
www: <http://www.idealliance.org>

International Assn. of Diecutting & Diemaking (IADD)

651 W. Terra Cotta Avenue, Suite 132
Crystal Lake, IL 60014
Tel: (815) 455-7519 or (800) 828-IADD
Fax: (815) 455-7510
E-mail: staff@iadd.org
www: <http://www.iadd.org>

**International Association of Printing House
Craftsmen (IAPHC)**

7042 Brooklyn Boulevard
Minneapolis, MN 55429
Tel: (800) 466-4274
Fax: (763) 560-1350
E-mail: headquarters@iaphc.org
www: <http://www.iaphc.org>

International Color Consortium (ICC)

1899 Preston White Drive
Reston, VA 20191-4367
Tel: (703) 264-7200
Fax: (703) 620-0994
E-mail: ksmythe@npes.org
www: <http://www.color.org>

**International Graphic Arts Education Assn.
(IGAEA)**

1899 Preston White Drive
Reston, VA 20191-4367
Tel: (703) 264-7200
Tax: (703) 620-0994
www: <http://www.igaea.org>

International Imaging Industry Assn. (I3A)

701 Westchester Avenue, Suite 317W
White Plains, NY 10528
Tel: (914) 285-4933
Fax: (914) 285-4937
E-mail: i3ainfo@i3a.org
www: <http://www.i3a.org>

**IPA - The Association of Graphic Solutions
Providers**

7200 France Avenue South, Suite 223
Edina, MN 55435
Tel: (800) 255-8141
E-mail: info@ipa.org
www: <http://www.ipa.org>

**International Publishing Management Assn.
(IPMA)**

710 Regency Drive, Suite 6,
Kearney, MO 64060
Tel: (816) 902-4762
Fax: (816) 902-4766
E-mail: ipmainfo@ipma.org
www: <http://www.ipma.org>

International Reprographic Association (IRgA)

401 N. Michigan Ave.
Chicago, IL 60611
Tel: (800).833.4742
Fax: (312).673.6724
www: <http://www.irga.com>

NAQP

(formerly PrintImage International)
2250 E. Devon Avenue, Suite 302
Des Plaines, IL 60018
Tel: (847) 298-8680, (800).234.0040
Fax: (847).298.8705
E-mail: info@printimage.org
www: <http://www.naqp.com>

National Association of Litho Clubs (NALC)

16065 W. Edgemont Drive
Goodyear, AZ 85395
Tel: (910) 575-0399
www: <http://www.graphicarts.org>

National Assn. for Printing Leadership (NAPL)

75 West Century Road
Paramus, NJ 07652-1408
Tel: (201) 634-9600
(800) 642-6275
Fax: (201) 986-2976
E-mail: info@napl.org
www: <http://www.napl.org>

**National Association of Printing Ink Manufacturers
(NAPIM)**

581 Main Street
Woodbridge, NJ 07095-1104
Tel: (732) 855-1525
Fax: (732) 855-1838
E-mail: napim@napim.org
www: <http://www.napim.org>

National Council for Skill Standards in Graphic Comm.

Harry V. Quadracci Printing & Graphic Center
800 Main Street
Pewaukee WI 53072
Tel: (262) 695-6252
Fax: (262) 695-6254
Email: maspenson@piw.org
www: <http://www.ncssgc.org/>

National Institute of Standards and Technology (NIST)

100 Bureau Drive, Stop 3460
Gaithersburg, MD 20899-3460
Tel: (301) 975-NIST (6478)
E-mail: inquiries@nist.gov
www: <http://www.nist.gov>

National Printing Ink Research Institute (NPIRI)

581 Main Street
Woodbridge, NJ 07095-1104
Tel: (732) 855-1525
Fax: (732) 855-1838
E-mail: napim@napim.org
www: <http://www.napim.org/>

National Soy Ink Information Center

4554 NW 114th Street
Urbandale, IA 50322-5410
Tel: (515) 251-8640 or (800) 747-4275
Fax: (515) 251-8657
E-mail: soyink@soyink.com
www: <http://www.soyink.com>

Newspaper Association of America (NAA)

4401 Wilson Boulevard, Suite 900
Arlington, Va. 22203-1867
Tel: (571) 366-1000
Fax: (571) 366-1195
E-mail: IRC@naa.org
www: <http://www.naa.org>

NPES The Association for Suppliers of Printing, Publishing and Converting Technologies

1899 Preston White Drive
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Tel: +52 5 570 3835
Fax: +52 5 570 1645

Unión de Industriales Litógrafos de México

Cerro de Las Torres 265
Campestre Churubusco
MX-04200 Mexico City
Tel: +52 5 549 26 37
Fax: +52 5 549 26 37

NETHERLANDS

Koninklijk Verbond van Grafische Ondernemingen (KVGO)

Startbaan 10, Postbus 220
NL-1180 AE Amstelveen
Tel: +31 20 543 5678
Fax: +31 20 543 5475
E-mail: info@kvgo.nl
www: <http://www.kvgo.nl>

Vereniging van Leveranciers voor de Grafische en Aanverwante Industrie (VLGA)

Adriaan Goekooplaan 5
NL-2517 JX Den Haag
Postal Address:
Postbus 29822
NL-2502 LV Den Haag
Tel: +070 338 46 63
Fax: +070 351 27 77
E-mail: info@vlga.nl
www: <http://www.vlga.nl/>

NEW ZEALAND

Printing Industries New Zealand

Huddart Parker Building
Post Office Square 6001
NZ-Wellington 6001
Tel: +64 4 472 3497
Fax: +64 4 472 3534

NORWAY

Grafiske Bedrifter Landsforening Havneleret

Langkaia, 1
NO-0150 Oslo
Tel: +47 22 41 2180
Fax: +47 22 33 6972

Norwegian Graphic Machinery Dealers' Assn.

Drammensveien 30
NO-2 Oslo
Tel: +47 64 94 3335

Visuell Kommunikasjon Norge

Norwegian Federation of Visual Communications Enterprises (VISKOM)
Tollbugaten 27
NO-0157 Oslo
Tel: +47 22 47 88 70
Fax: +47 22 47 88 71
E-mail: to@viskom.net

PAKISTAN

Pakistan Association of Graphic Arts Industry

214 Mashriq Center
Opp. Faran Club, Stadium Road
Karachi, 74200
Pakistan
Tel: 92-214920175
Fax: 92-214926225

PARAGUAY

Asociacion de Industriale

Graficos del Paraguay
Ayolas No 1627
PY-Asunción
Tel: +595 21 71 163
www: <http://www.aigp.com.py/asociados.html>

Centro de Capacitacion en Artes Graficas

Paris 1018 esq. Colon
PY-Asuncion
Tel: +595 21 83 038
Fax: +595 21 83 038

PHILIPPINES

Philippine Printing Technical Foundation

2nd Floor SCC Chevelier Center Building
3892 R. Magsaysay Boulevard
PH-Manila

Printing Industries Assn. of the Philippines, Inc.

Suite 212 Dela Rosa Condominium
7648 Dela Rosa Street
PH-Makati City
Tel: +632 894 5224
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POLAND

ABIX

ul. Wyzalazek 2
PL-02-672 Warsaw
Tel: +48 22 43 85 11

Institut fur Druck

ul Konwiktorska 2
PL-00-217 Warsaw
Tel: +48 2 635 47 98
Fax: +48 2 635 50 44

Polska Izba Druku

Polish Chamber of Printers
00-093 Warszawa
ul. Daniłowiczowska 18A
Tel: (22) 827 56 13
Fax: (22) 828 62 77
Email: izbadruku@izbadruku.org.pl
www: <http://www.izbadruku.org.pl>
Fax: +48 22 34 80 34

PORTUGAL

Associação Portuguesa das Indústrias Gráficas, de Comunicação Visual e Transformadoras do Papel (APIGTP)

Largo do Casal Vistoso
2/D/Esc. B,D,C
PT-1900-142 Lisboa
Tel: +351 21 849 10 20
Fax: +351 21 843 87 39
E-mail: apigraf@mail.telepac.pt

ROMANIA

Organizatia Patronala a Tipografiilor din Romania (OPTR)

Brezoianu Street 23-25
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RUSSIA

All Russia Research Institute for Graphic Arts

Staropetrovsky pr. 11
RU-125130 Moscow
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Russian Research Institute for Graphic Arts

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RU-125130 Moscow
Tel: +70 95 153 8280
Fax: +70 95 159 4723

SCOTLAND

Scottish Print Employers' Federation

48 Palmerston Place
GB-EH12 5DE Edinburgh
Tel: +44 131 220 4353
Fax: +44 131 220 4344
E-mail: info@spef.org.uk
www: <http://www.spef.org.uk>

SIERRA LEONE

Sierra Leone Association of Master Printers

c/o oduntor Printing Press
61 Soldier Street
SL-Freetown
Tel: +22 5706

SINGAPORE

Master Printers Association

68 lorong 16 Gayland #04-02
Association Building
SG-Singapore 1439
Tel: +65 745 6913
Fax: +65 745 6916

Singapore Book Publishers' Association

c/o Octopus Publishing Asia Pte. Ltd
37 JI, Pemimpin #07-04
Block B Union Ind. Building
SG-Singapore, 2057
Tel: +65 258 3255
Fax: +65 258 8279

SLOVAK REPUBLIC

Printing Industries of the Slovak Republic

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SK-Bratislava, 82603
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Fax: +427 2335 42

SOUTH AFRICA

Printing Industries Federation of South Africa (PIFSA)

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PO Box 1084
ZA-2040 Honeydew
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Fax: +27 11 794 3964/5
E-mail: pifsa@pifsa.org
www: <http://www.pifsa.org/>

SPAIN

Federación Empresarial de Industrias Gráficas de España National Federation of the Graphics Industries (FEIGRAF)

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ES-28004 Madrid
Tel: +34 91 5227249
Fax: +34 91 5326745
E-mail: feigraf@feigraf.es
www: <http://www.feigraf.es>

GRAPHISPACK

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s/n° (Fira de Barcelona)
ES-08004 Barcelona
Tel: +34 932 332 250
Fax: +34 932 332 252
www: <http://www.graphispack-asociacion.com/>

Spanish Association for the Development of the Graphic Arts

Jesus Maestro s/n
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Tel: +34 234 5359

SWEDEN**Grafiska Företagens Förbund (GFF)**

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104 51 Stockholm
Tel: +46 8 762 6800
Fax: +46 8 611 0828
E-mail: lar.josefsson@grafiska.se
www: <http://www.grafiska.se>

Gruppen Grafiska Maskiner

c/o Sveriges Mekanförbund
Box 5506
SE-114 85 Stockholm
Tel: +46 8 783 8200
Fax: +46 8 660 3378

Swedish Printing Industries Federation

Sankt Erisgaten 26 111
PO Box 12069
SE-102 22 Stockholm

SWITZERLAND**ASAG**

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CH-8030 30 Zurich
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Fax: +41 1 252 1743

EMPA

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CH-9001 St Gallen
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Fax: +41 71 227 220

Swiss Association of Machinery Manufacturers

Kirchenweg 4, Postfach
CH-8032 Zurich
Tel: +41 1 221 3009
Fax: +41 1 221 3492

Swiss Association for Visual Communication

Carmenstrasse 6
CH-8030 Zurich
Tel: +411 266 2424
Fax: +411 266 2425

Swiss Printing Association

Schesshaldenstrasse 20
CH-3000 Bern 32
Fax: +4131 352 37 38

Verband der Schweizer Druckindustrie Assn. of the Swiss Printing Industry (VSD)

Schossaldenstrasse 20
Postfach 252
CH-3000 Bern 32
Tel: +41 31 351 1511
Fax: +41 31 352 3738
E-mail: office@vsd.ch
www: <http://www.druckindustrie.ch>

VISCOM

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CH-8030 Zürich 30
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Fax: +41 1 266 2425

TAIWAN**China Printing Technology Association ROC**

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Fax: +886 4 236 4564

Hsing Tai Color Printing Company

64 Chung Hsiao Road
Taiwan-Taichung
Tel: +886 4 287 1181
Fax: +886 4 287 2770

Importers and Exporters Association of Taipei

5F 350 Sung Kiang Road
Taiwan-Taipei 10477
Tel: +886 2 581 3521
Fax: +886 2 536 3328

Taipei Commercial Printing Association

7F 220 Kunming St.
Taiwan-Taipei
Tel: +886 2 505 5206

Taipei Commercial Publishers Association

1/F 6 Lane 168
Chung Hua Road, Sec. 1
Taiwan-Taipei 10817
Tel: +886 2 371 8325

Taiwan Printing Industrial Association

Rm. A 6/F 71, Jen Ai Road, Sec. 4
Taiwan-Taipei
Tel: +886 2 391 9274
Fax: +886 2 391 9294

Taiwan Printing Industry Association

64 Chung-hsiao Road
Taiwan-Taichung
Tel: +886 4 287 1181
Fax: +886 4 287 1066

THAILAND**Thai Color Separation Association**

C/F 111/10-12 Rachadamnoen Condominium
Nakornsawan Road, Pomprab
TH-10200 Bangkok
Tel: +66 2 282 0148
Fax: +66 2 217 9580

Thai Printing Association

158/2-4 new Rama VI Road
Pratumwan
TH-10330 Bangkok
Tel: +66 2 214 3982
Fax: +66 2 254 6151

UNITED KINGDOM**Association of Printing Machinery Importers**

Enterprise House
Isambard Brunel Road
GB-Portsmouth P01 2RZ
Tel: +44 705 75 3175
Fax: +44 705 82 5356

British Printing Industries Federation (BPIF)

Farringdon Point
29-35 Farringdon Road
GB-London EC1M 3JF
Tel: +44 20 7915 8300
Fax: +44 (0) 20 7405 7784
E-mail: info@bpif.org.uk
www: <http://www.bpif.org.uk>

European Flexographic Technical Assn. (EFTA)

4/5 Bridge Barns, Langport Road
GB-Somerset TA 10 9PZ
Tel: +01458 241455
Fax: +01458 241684
E-mail: hiding@efta.co.uk
www: <http://www.efta.co.uk/>

PIRA

Randalls Road, Letherhead
GB-Surrey KT22 7RU
Tel: +44 0 1372 802000
Fax: +44 0 1372 802238
E-mail: webmaster@pira.co.uk

VENEZUELA**AIGES**

Conglomerado de Melendez, Galpon 13-A
Cumana - Edo Sucre del Estado Sucre
VE-Caracas
Tel: +58 93 66 3923
Fax: +58 93 66 2359

CAINGRA

Av. 4 Bella Vista c/Calle 67, Cecilio Acosta
Edif Torre Socuy, 2do Piso, maracaibo
VE-Edo. Zulia, Caracas
Tel: +58 61 92 0762
Fax: +58 61 92 3057

VIETNAM**Printing Import Export Co.**

391A Tran Hung Dao St., Dist. 1
VN-Ho Chi Minh City
Tel: +84 8 33 0538

PRINTEXIM

16-32 Phan van Dat St., Dist. 1
VN-Ho Chi Minh City
Tel: +84 829 6151

YUGOSLAVIA**Celuloze, Papirne i Graficke Industije i**

Izdavacke Delatnosti, Terazije 23
YU-Beograd, 11000

ZAMBIA**Printers Association of Zambia**

c/o The School of Printing
Evelyn Home College
PO Box 33850
ZM-Lusaks 10101
Fax: +84 8 33 053
www: <http://www.pira.co.uk/>

COLLEGES, UNIVERSITIES & INSTITUTIONS OFFERING GRAPHIC COMMUNICATION PROGRAMS

UNITED STATES AND TERRITORIES

ALABAMA

Jacksonville State University
Dr. Kingsley O. Harbor, Coordinator
Graphics Communications Program
Communication Department
700 Pelham Rd. North
Jacksonville, AL 36265
Tel: 1-800-231-5291
email: kharbor@jsu.edu
www: <http://www.jsu.edu/contact.html>

ALASKA

No known baccalaureate programs

ARIZONA

Arizona State University East
Dr. Thomas E. Schildgen, Coordinator
Graphic Communications Program
Department of Technology Management
7001 East Williams Field Road, Tech. Center
Mesa, AZ 85212
email: ts@asu.edu
www: <http://www.east.asu.edu>

Collins College

Prof. Katherine Thornhill, Coordinator
Graphic Communications Program
School of Design-Visual Communication
1140 South priest
Tempe, AZ
www: [www: \[www: \\[www:\\]\\(http://www.collinsCollege.edu/\\)\]\(http://www.collinsCollege.edu/\)](http://www.collinsCollege.edu/)

ARKANSAS

Arkansas State University
Dr. Joel T. Gambill, Coordinator
Graphic Communications Program
Department of Journalism and Printing
P.O. Box 1930
State University, AR 72467
email: jgambil@astate.edu
www: <http://www2.astate.edu/>

CALIFORNIA

Art Center College of Design
Prof. Laurie Makela, Coordinator
Graphic Communications Program
Department of Graphic Design
1700 Lida Street
Pasadena, CA 91103
www.: <http://www.artcenter.edu/>

Biola University

Prof. Loren Baker, Coordinator
Graphic Communications Program
Department of Visual and Theatrical Arts
13800 Biola Avenue
La Mirada, CA 90639
Tel: 1-562-903-6000
email: loren.baker@biola.edu
www.: <http://www.biola.edu/>

California Polytechnic State University

Dr. Harvey R. Levenson, Coordinator
Graphic Communication Department
1 Grand Avenue
San Luis Obispo, CA 93407
Tel: 805-756-1108
email: hlevenso@calpoly.edu
www: <http://www.grc.calpoly.edu/>

California State University, Chico

Dr. Terry Curtis (JD), Coordinator
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1st and Normal Streets
Chico, CA 95929
Tel: (530) 898-4048
Fax: (530) 898-5877
email: tcurtis@csuchico.edu
www: <http://www.csuchico.edu/cdes>

California State University, Fresno

Prof. Richard McQuone, Coordinator
Graphic Communications Program
Department of Art and Design
5225 North Backer Avenue, MS CA65
Fresno, CA 93740-8001
Tel: 559-278-4840
email: richard_mcquone@csufresno.edu
www: <http://www.csufresno.edu/>

California State University, Fullerton

Dr. Tony Fellow, Coordinator
Graphic Communications Program
Department of Visual Arts
800 North State College Boulevard
Fullerton, CA 92834-6850
email: afellow@fullerton.edu
www: <http://www.fullerton.edu/>

California State University, Los Angeles

Dr. Benjamin L. Lee, Coordinator
Graphic Communications Program
Department of Technology
5151 State University Drive
Los Angeles, CA 90032-8154
Tel: (323) 343-4510
Fax: (323) 343-4555
email: blee10@calstatela.edu
www: <http://www.calstatela.edu>

California State University, Monterey Bay

Prof. Amalia Mesa-Bains, Coordinator
Graphic Communications Program
Institute for Visual Art
100 Campus Center Building #71
Seaside, CA 93955
Tel: 831-582-3000
email: amalia_mesa-bains@csumb.edu
www.: <http://monterey.edu/>

Expression Center for New Media

Mr. Spencer Nilsen, President
6601 Shellmound Street
Emeryville, CA 94608
Tel: (877) 833-8800
email: robbyn@expression.edu
www: <http://www.expression.edu/>

Humboldt State University

Dr. Saeed Mortazavi, Coordinator
Graphic Communications Program
Department of Applied Technology
One Harpst Street
Arcata, CA 95521
email: appttech@humboldt.edu
www: <http://www.humboldt.edu/>

San Francisco State University

Prof. Ricardo Gomes, Coordinator
Graphic Communications Program
Design and Industry Department
Fine Arts Building, Room 121C
1600 Holloway Avenue
San Francisco, CA 94132
Tel: (415) 338-2229
email: ricgomes@sfsu.edu
www: <http://userwww.sfsu.edu/~dcgn/>
www: <http://www.sfsu.edu/>

COLORADO**Mesa State College**

Prof. Teresa S. Garner, Coordinator
Graphic Communications Program
Department of Art
1100 North Avenue
Grand Junction, CO 81501-3122
Tel: (970) 248-1020
www: <http://www.mesastate.edu/>

Rocky Mountain College of Art & Design

Prof. Fred Murrell, Coordinator
Graphic Communications Program
1600 Pierce Street
Lakewood, CO 80224
Tel: (303) 753-6046
Fax: (303) 759-4970
email: fmurrell@rmcad.edu
www: <http://www.rmcad.edu/>

CONNECTICUT**Central Connecticut State University**

Dr. Karen C. Tracey, Coordinator
Graphic Communications Program
Computer, Electronics, & Graphics Technology
1615 Stanley Street
New Britain, CT 06050
Tel: (860) 832-1842
email: tracey@ccsu.edu
www: <http://www.ccsu.edu/>

DELAWARE

No known baccalaureate program

DISTRICT OF COLUMBIA**University of the District of Columbia**

Prof. Peter Interdonato, Coordinator
Graphic Communications Program
College of Arts & Sciences
4200 Connecticut Avenue NW
Washington, DC 20008
Tel: (202) 274-5037
email: pinterdonato@udc.edu
www: <http://www.udc.edu/>

FLORIDA

Florida Agricultural and Mechanical University

Dr. Arvid V. Mukes, Coordinator
Graphic Communications Program
Banneker Building B, Office 12
1700 Lee Hall Dr.
301 Foote-Hilyer
Tallahassee, Florida 32307
Tel: (850) 599-3096 or 850.599.3000
Fax: (850) 561-2648
email: omukes@famu.edu
www: <http://www.famu.edu>

Florida State University

Prof. Keith Roberson, Coordinator
Graphic Communications Program
Department of Art, 220 Fine Arts Building
Tallahassee, Florida 32306-1150 USA
Tel: (850) 644-6474
email: kroberson@fsu.edu
www: <http://kroberson.fab.fsu.edu/keith/>

Ringling School of Art and Design

Prof. Kim Elam, Coordinator
Graphic Communications Program
2700 N Tamiami Tr
Sarasota, FL 34234-5896
Tel: (941) 351-5100
www: www.ringling.edu

University of Central Florida

Prof. David Vickers, Coordinator
Graphic Communications Program
Department of Digital Media
4000 Central Florida Blvd.
Orlando, FL 32816-1342
Tel: (407) 823-2000
email: dvickers@mail.ucf.edu
www: <http://www.ucf.edu/>

GEORGIA

Georgia Southern University

Dr. Donald J. Armel, Coordinator
Graphic Communications Management
Betty Foy Sanders Department of Art
Printing Management Program/School of Box
8046
Forrest Drive
Statesboro, GA 30461
Tel: (912) 681-0334
Fax: (912) 871-1455
email: jholmes@gsaix2.cc.gasou.edu
www: <http://georgiasouthern.edu>

Kennesaw State University

Prof. Carole Mauge-Lewis, Coordinator
Graphic Communications Program
Department of Visual Arts
1000 Chastain Road
Kennesaw, GA 30144
Tel: 770-423-6139
Fax: 770-499-3345
email: cmaugele@kennesaw.edu
www: <http://www.kennesaw.edu/>

HAWAII

No known baccalaureate programs

IDAHO

University of Idaho

Prof. Delphine Keim-Campbell, Coordinator
Graphic Communications Program
Department of Art
PO Box 442471
Moscow, ID 83844-2471
Tel: (208) 885-6851
Fax: (208) 885-9066
email: delphine [at] uidaho.edu
www: <http://www.uidaho.edu>

ILLINOIS

Chicago State University

Dr. Sylvia Gist, Coordinator
Graphic Communications Management
Department of Technology and Education
9501 South King Drive
Education Building 203
Chicago, IL 60628-1598
Tel: (773) 995-398
email: s-gist@csu.ed
www: <http://www.csu.edu/>

Eastern Illinois University

Dr. Luke Steinke, Coordinator
Graphic Communications Program
School of Technology, Klehm Hall 4425
600 Lincoln Avenue
Charleston, IL 61920-3099
Tel: (217) 581-6271
email: lsteinke@eiu.edu
www: <http://www.eiu.edu/~tech/>

Illinois State University

Dr. Daniel G. Wilson, Coordinator
Graphic Communications Program
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Printing Management - Campus Box 5100
Normal, IL 61790-5100
Tel: (309) 438-3661
Fax: (309) 438-8626
www: <http://www.ilstu.edu/>

Western Illinois University

Prof. Charles T. Weiss, Coordinator
Graphic Communications Program
Department of Engineering Technology
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Macomb, IL 61455
Tel: (309) 298-1488
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INDIANA**Ball State University**

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Purdue University

Prof. James Sprinkles, Coordinator
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Department of Computer Graphics Technology
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401 North Grant Street
West Lafayette, IN 47907
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Fax: (765).494.9267
email: cgtinfo@purdue.edu
www: www.tech.purdue.edu/cg

IOWA**Drake University**

Prof. Robert Craig, Coordinator
Graphic Communications Program
Department of Art and Design
2507 University Avenue
Des Moines, IA 50311
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University of Northern Iowa

Prof. Sara Smith, Coordinator
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Cedar Falls, IA 50614-0178
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Fax: (319) 273-5818
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www: <http://www.uni.edu/gciowa/>

KANSAS**Pittsburg State University**

Dr. James S. Sours, Coordinator
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Pittsburg, KS 66762-7576
Tel: (620) 235-4420
Fax: (620) 235-4413
email: jsours@pittstate.edu
www: <http://www.pittState.edu>

KENTUCKY**Eastern Kentucky University**

Dr. David W. Dailey, Coordinator
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email: dw.dailey@eku.edu
www: <http://www.art.eku.edu>

Eastern Kentucky University

Prof. Herb Goodman, Coordinator
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Department of Art & Design
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521 Lancaster Avenue
Richmond, KY 40475-3102
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www: <http://www.eku.edu>

Murray State University

Prof. Steve Robinson, Coordinator
Graphic Communications Program
Graphic Communications Management
103C Applied Science Building
Murray, KY 42071-3345
Tel: (270) 762-3394
Fax: (270) 762-3513
email: steven.robinson@murraystate.edu
www: www.murrayState.edu/cit/gat

Northern Kentucky University

Prof. Thomas McGovern, Coordinator
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Department of Art
Louis B. Nunn Drive
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Tel: (859) 572-6952
email: mcgovern@nku.edu
www: <http://www.nku.edu/>

University of Kentucky

Prof. Doreen Maloney, Coordinator
Graphic Communications Program
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207 Fine Arts
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Tel: (859) 257-5509
email: dmalone@uky.edu
www: <http://www.uky.edu/>

LOUISIANA

No known baccalaureate programs

MAINE**University of Southern Maine**

Dr. Andrew L. Anderson, Coordinator
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Department of Technology
211 John Mitchell Center
Tel: (207) 780-5448
Fax: (207) 780-5129
email: andrew@usm.maine.edu
www: <http://usm.maine.edu/tech/>

MARYLAND**University of Baltimore**

Dr. Jonathan Shorr, Coordinator
Graphic Communications Program
School of Communications Design
1420 North Charles Street
Baltimore, MD 21201
Tel: (410) 837-6059
email: jshorr@ubalt.edu
www: <http://www.ubalt.edu/>

University of Maryland Baltimore City

Prof. Franc Nunoo-Quancoo, Coordinator
Graphic Communications Program
Dept. of Visual Arts, Fine Arts Building
1000 Hilltop Circle
Baltimore, MD 21250
Tel: (410) 455-2150
email: franc@umbc.edu
www: <http://www.umbc.edu/>

MASSACHUSETTS**Fitchburg State College**

Prof. John Chetro, Coordinator
Graphic Communications Program
Department of Public Relations
160 Pearl Street
Fitchburg, MA 01420
Tel: 978-665-3261
email: jchetro@fsc.edu
www: <http://www.fsc.edu/>

MICHIGAN**Andrews University**

Prof. Renee A. Skeete, Coordinator
Graphic Communications Program
Dept. of Digital Media & Photography
Harrigan Hall 229
Tel: (269) 471-6274
email: skeete@andrews.edu
www: <http://www.andrews.edu/>

Baker College

Prof. Donald Mangione, Coordinator
Graphic Communications Technology
Dept. of Graphic Communications/Web Design
1903 Maquette Avenue
Muskegon, MI 44942
Tel: (231) 777-5298
email: don.mangione@baker.edu
www: <http://www.baker.edu>

Central Michigan University

Dr. Alan D. Papendick, Coordinator
Graphic Communications Program
Dept. of Industrial & Engineering Technology
100 Industrial Technology Building
Mt. Pleasant, MI 48859
Tel: (989) 774-7692
email: papen1ad@cmich.edu
www: <http://www.iet.cmich.edu>

College for Creative Studies

Coordinator – open
Graphic Design Program
201 East Kirby
Detroit, MI 48202-4034
Tel: (313).664.7920
email: info@schoolforcreativestudies.org
www: <http://www.collegeforcreativestudies.edu/>

Eastern Michigan University

Prof. Paul Majeske, Coordinator
Graphic Communications Program
School of Technology Studies
122 Sill Hall (Main Office)
208B Sill Hall (Personal Office)
College of Technology
Ypsilanti, MI 48197
Tel: (734) 487-1161
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