



SOCIETY OF PLASTICS ENGINEERS
COLOR & APPEARANCE DIVISION Board of Directors
Spring Board Meeting Minutes



Date: Location: April 29, 2014 Board of Director's Meeting Rio
 All-Suites Hotel & Casino; Las Vegas, NV

Present

Attendance

Absent:

Present		Attendance	Absent:
Aumann, Scott		Mullins, Brenda	Drusda, Jeff
Balthazar, Earl		Phillips, Tracy	Ehr, Sharon
Becker, Doreen		Przybylski, Jamie	Figaniak, Jim
Bodi, Alan		Puckerin, Betty	Freshwater, Mark

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Aumann, Scott		Mullins, Brenda	Drusda, Jeff
Balthazar, Earl		Phillips, Tracy	Ehr, Sharon
Becker, Doreen		Przybylski, Jamie	Figaniak, Jim
Bodi, Alan		Puckerin, Betty	Freshwater, Mark
Button, Hal		Rachal, Tom	Heitzman, Scott
Bykowski, Paul		Rangos, George	Lavieri, Frank
Chirayil, Tom		Rediske, Jim	Reid, Sharyl
Davis, Sandra		Reid, Austin	
Esker, Steve		Reinecker, Roger	
Goldstein, Steve		Smeltzer, Ann	
Karszes, Nathan		Treat, Cheryl	
Ladson, Jack		Tyler, Mark	
Mulholland, Bruce		West, Brian	

Upcoming Board Meetings:

Summer Meeting	Westin Indianapolis Indianapolis, IN	July 30, 2014 8:45 Am
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Tuesday April 29, 2014 Agenda

Room – Tropical A&B

Continental Breakfast will be served at 8:00 AM

Note: please contact Ann with any changes or suggestions as the goal is to stay on time. Breakfast is available from 8:00 – 8:45 AM we will start the meeting at 8:45 AM

Meeting Courtesy – Please give speakers the same courtesy you would expect.

- **No sidebar conversations when others are speaking to the group.**
- **Cell phones on vibrate or silent.**
- **Laptops / Notebooks allowed for note taking**
- **No E-Messages via any electronic devices unless relevant to the topic being discussed.**

BOARD OF DIRECTORS MEETING

- Welcome, Introductions, Opening Remarks, Announcements – A. Smeltzer
- SPE Anti-Trust Statement – A. Smeltzer
- SPE Guest Comments
- Secretary's report – B. Mullins
- Treasurer's Report-B. Mulholland
- Chair – Elect – B. Puckerin – Election Update
- Councilor's report – S. Davis

Committee Reports:

- **Technical Program**
 - **ANTEC** Technical Program Committee – A.Reid
 - ANTEC 2014 (Las Vegas) – D. Becker/S. Reid
 - ANTEC 2015 (Orlando) – B. Mulholland/A. Reid
 - ANTEC 2016 (Indianapolis)
 - ○ **RETEC** Technical Program Committee – J. Figaniak
 - RETEC 2014 (New Orleans) – E. Balthazar/M. Freshwater
 - RETEC 2015 (Indianapolis) – B. Puckerin/S.Heitzman
 - RETEC 2016 (Florida) – S. Aumann
 - • **Communications** – T. Phillips
 - ○ **Website/Internet** – T. Phillips
 - ○ **Newsletter** – J. Przybylski
 - **Education/Technical Resource** – S. Goldstein
 - **Terra** -J. Przybylski

- **Book Volume 2 – All**
- **Endowment – G. Rangos**
- **Awards – R. Reinicker**
 - **HSM / Fellow / OA -R. Reinicker**
 - **Pinnacle Award – J. Drusda**
 - **Communications Excellence Award – P. Bykowski**
- **Membership -J. Ladson**
- **Public Interest – B. Puckerin**
- **International -B. West**
- **Color Advisory Group – J. Ladson**
- **Old Business – All**
 - Action Items – All

Action Item List Reviewed in January 2014 Board Meeting

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Ladson, Jack	Tyler, Mark	
Mulholland, Bruce	West, Brian	
McLendon, Diane	Willis, Michael	

From Jan 2014 Meeting	Assigned to	Due	Status
Obtain update on new website from Jeremy Hodge	Tracy Phillips	ANTEC 2014	Open
Establish committee membership for ANTEC 2016	Austin Reid	ANTEC 2014	Open
Select Chair for Technical Content Review Committee	Ann Smeltzer	ANTEC 2104	Open
From Fall 2013 Meeting	Assigned to	Due	Status
		ANTEC 2014	

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Balthazar, Earl	Phillips, Tracy	Ehr, Sharon
Becker, Doreen	Przybylski, Jamie	Figaniak, Jlm

- **New Business – All**
- **Next Meeting – B. Puckerin**

END OF CAD BOARD MEETING

MINUTES of the April 29, 2014 CAD BOD MEETING

Welcoming & Opening Remarks – A. Smeltzer

Ann welcomed the group. We had two guests, Diane McLendon and Michael Willis. Tom Chirayil, our newest BOD member also was present. Introductions were made. A moment of silence was observed in honor of Bob Charvat who passed away in January.

SPE Anti-Trust Statement – A. Smeltzer Ann reviewed the Anti-Trust statement with the participants:

The meeting referenced above will be governed by the Anti-Trust Act Statement listed as follows: SOCIETY OF PLASTICS ENGINEERS ANTITRUST GUIDELINES

It is an SPE Policy that there can be:

- 1. No discussion among members which attempts to arrive at any agreement regarding prices, terms or conditions of sale, distribution, volume, territories, or customers;**
- 2. No activity or communication which might be construed as an attempt to prevent any person or business entity from gaining access to any market or customer for goods or services or any business entity from obtaining services or a supply of goods;**
- 3. No activity or communication, which might be construed as an agreement to refrain from purchasing or using any materials, equipment, services or supplies of or from any supplier; or any other activity which violates antitrust or other applicable laws aimed at preventing unfair competition.**

Secretary's report – B. Mullins

Brenda asked if anyone had any revisions to the January 7, 2014 BOD meeting minutes. A motion was made by Betty to approve the minutes and seconded by Earl. (All approved). The Winter 2014 Meeting minutes will be filed and a copy sent to SPE. The mailing list and committee membership lists were circulated for corrections.

Ann announced that the CAD had received the Pinnacle Award and Communications Award at the Awards Luncheon on Sunday.

Treasurer's report – B. Mulholland

Bruce distributed the following documents. These are all included as Appendix A and B.

- Treasurers report – March 31, 2014
- Annual Budget July 1, 2014 to June 30, 2015

A motion was made by Alan to approve the minutes and seconded by Paul (all approved).

Chair-Elect Report – B. Puckering

Election Update:

16 candidates ran for the 9 open board member positions. All 7 incumbents were re-elected. New members, Tom Chirayil and Pete Zelitto were elected.

Betty requested from Jack the most recent member list. She had problem confirming membership for four people submitting ballots. Two ballots were removed because they were not listed as a member of CAD. 65 ballots overall were received. In past elections even with paper ballots, we averaged around 10% participation. The group discussed ways to increase participation in voting. Tracy will promote it more on LinkedIn. Jack suggested the use of Constant Contact. Sandy suggested that we add this subject to the agenda at a future board meeting. Bruce suggested using Constant Contact for one trial to receive the analytics.

Tracy Phillips volunteered to mentor for Tom Chirayil. George Rangos volunteered to mentor Pete Zelitto.

An election was held during the board meeting for the position of Secretary. Cheryl Treat and Doreen Becker were nominated as candidates. Cheryl Treat was elected by majority vote.

Councilor's report – S. Davis –

Council Report on the ANTEC 2014 Council Meetings

The ANTEC 2014 Council Meetings for SPE were held on April 27, 2014, in Las Vegas, NV. The highlights from the meetings were as follows:

Membership: Membership in SPE continues to decline, however, there is optimism that the decline may be tapering off. For budgeting purposes, SPE had budgeted a 3.7% decline in membership for 1Q14, however, the actual decline was 2.7%. One issue which has persisted is inaccuracies in membership reporting and HQ claims that the issues have been resolved and the membership reports provided to member groups are now accurate.

Financial: The financial reporting focused on the first quarter of 2014, which finished about \$100,000 ahead of budget with a strong cash position. The strong cash position is related to the incoming ANTEC income and the cash flow is expected to return to typical by the end of the summer.

Support Technology:

- New website design: The new website has been launched and has a significantly updated look and navigation. The response to the updated website has generally been positive. It is designed to be responsive to the platform used for viewing – computer versus mobile versus tablet. Along with the new website design, there is renewed emphasis on brand image compliance by the member groups. To assist in this compliance, SPE is offering ‘microsites’ which are sub-sites of the main SPE website for member groups to manage their own content. It is still possible for member groups to request a link from www.4spe.org to their own site, but the independent sites must comply with the brand image as well.
- Mobile App: SPE has introduced a mobile app for general access to information about SPE as well as a second one for conferencing. Due to issues with how the apps are listed in ‘app stores’, finding the apps can be challenging and users may need to search multiple ways.

-‘The Chain’: Previously called SPE Connect, ‘The Chain’ is SPE’s foray into social networking. Designed to combine the concepts of LinkedIn, Facebook and other social networking sites, The Chain will offer forums and work groups within the community. Beta testing is planned for July 2014, with the phase 1 roll out targeted for September, including a demonstration at the Fall Council meeting.

Conferences Committee: The previously disbanded Conferences Committee will be reinstated to offer oversight over member group conferencing, including scheduling of conferences. The voting membership of the Conferences Committee will be the upcoming Conference Chair for the next two conferences to be sponsored by the member groups. It is unclear how these meetings will be handled, although it was indicated that the meetings will be about four times per year. Additionally, in order to avoid overloading HQ staff as more conferences start to rely on HQ staff for conference support, it was stated that no conferences will overlap. Approval of conference proposals, including dates, will be required prior to execution of hotel contracts. In the future if a member group signs a hotel contract without gaining HQ approval for the dates and another group already has approval for the dates, the second group will not be allowed to use the SPE brand or logo and there will be no HQ support for the conference.

Bylaws & Policies:

- Policy 016: Establishment of Student Chapters – Definition of the steps for form a student chapter
- Passed -Policy 031: Intellectual Property – Definition of allowable practices for recording, photographing or otherwise recording sessions or speeches at SPE events – Passed
- Bylaw 7.4.6: Proposed changes to the service requirements for appointees to the Executive Committee. This was the second reading of a proposal to strike the requirement that appointees to the Executive Committee meet the eligibility requirements laid out elsewhere in the Bylaws. The proposed change has been published for review by the membership of SPE. – Passed
- Bylaw 9.2 and 10.2: Proposed changes to the requirements for a section or division to be placed on provisional or abandoned status. This was second reading of the proposed changes to the bylaws so that provisional/abandoned status requirements are moved to a policy. The proposed changes have been published for review by the membership of SPE – Passed

ANTEC 2017 – Anaheim, CA in May 2017 – actual dates were not specified

Next Council meeting: September 13-14, New Orleans, LA

Respectfully submitted,

Sandra Davis May 4,
2014

Committee Reports

Ann read the following report submitted by Jim Figaniak prior to the meeting since he could not be present.

RETEC 2013 New Orleans Sep 15-16, 2014 -Earl: Earl will give a more detailed report, but the conference planning conference calls have begun. The hotel is now accepting reservations.

RETEC 2014 Indianapolis Oct 5-6, 2015 -Scott H. and Betty -Westin Hotel contract is signed and ready to go. Additional rooms for the BOD have been added to the room block, and this is the model going forward until it needs to be adjusted again. I think that Betty or Scott have recently met with the hotel. We are ready to start taking volunteers for the various committees, but certainly by the 2014 RETEC we would like to know.

RETEC 2015 -Jacksonville Sep 12-13, 2016 -Scott A. -Sawgrass Marriott Golf Resort and Spa -Contract is signed. A room rate of \$179 was secured. The hotel has been very accommodating.

Site and Theme -we will likely have a site and theme meeting this year at the summer meeting to select a 2017 site.

• **Technical Program**

○ ANTEC Technical Program Committee – A.Reid

⑩ ANTEC 2014 (Las Vegas) –

• Was a very successful program with good audience participation. Austin recognized Doreen and Sharyl for putting together the technical program. Doreen suggested an earlier deadline for receiving papers. Having the moderator loop on a separate computer ran well. Suggestion made by Sandy to split the afternoon session into two sections with two moderators. Scott suggested the use of a splitter for future conferences.

⑩ ANTEC 2015 (Orlando) – B. Mulholland/A. Reid

• March 23-27 -No updates. Committee will start soliciting for papers after Papers selection for RETEC has been completed.

⑩ ANTEC 2016 – (Indianapolis)

• May 23-25

• Technical Program Chairs are Tom Chirayil and Brian West

• ANTEC 2017 –Anaheim, CA

• ○ **RETEC** Technical Program Committee – J. Figaniak (see written report above)

• ⑩ RETEC 2014 (New Orleans) – E. Balthazar/M. Freshwater (get written report)

• Registration went live last week. Posted on FB and will be on LinkedIn shortly

• Next E-blast going out in May

• Hotel reservation link is live

• Filling up on Friday and Wed. Will try to expand block

• Scheduled meeting with event manager and housing coordinator May 15

• Options for receptions offsite, but decision made to have reception on site from 6 to 8

• Recommendation for future hotel contracts – require hotel to notify in writing of any other groups contracting at hotel.

• Technical Program – In much better shape leaving antec than coming

• Giveaway power charger and lapel pin

• Framed prints and emergency radios as speaker gifts

• Two additional conferences will run concurrently (TPO and Thermoforming)

• Next go to meeting will take place last week in May

• ⑩ RETEC 2015 (Indianapolis) – B. Puckerin/S.Heitzman

• Betty and Scott had conference call with hotel. Reception will be done at hotel. May have reception late based upon survey responses.

• Will need volunteers for TPC by summer.

• ⑩ RETEC 2016 (Florida) – S. Aumann/D. Becker

• Nothing to report at this time.

• Contract has been signed

• Has SPE International accepted our bid? Please confirm with Jim

• Kathy Schacht from SPE – membership – Ann received email regarding membership report. Ann will

forward it to Jack Ladson. Report is real time.

- Gail Bristol will be retiring this summer. HQ is moving from Newtown to Bethel, CT.

Communications Committee -T. Phillips

Website/Internet -T. Phillips

We have decided to delay the redesign and launch of the new website until new SPE rules and preferences about branding, logos and hosting are clarified. 4SPE.org was launched 2 weeks ago, and we want to keep a visual and navigation similarity in any changes to specad.org. There is also the issue of having a duplicate or competing micro site on 4SPE.org.

In the meantime, the committee has been looking into options for new web host/design services. We want to maintain control of content for ease of quick posting and edits, but we want to avoid duplication of effort.

We are looking at Omnipress, web.com, godaddy.com, and homestead.com. Some pricing has been gathered for comparison.

Omnipress --benefits would be having our entire web presence, including the archive dvd, hosted on one platform, allowing more content connectivity. Downsides include initial and ongoing maintenance costs.

ACTION: Committee to reach out to Tom Conklin at SPE for clarification of requirements and preferences and request a temporary link to specad.org

ACTION: Compile comparison of web services from SPE and 3rd party options to present at August SPE meeting. Options will be reviewed and a decision made by September.

ACTION: Contact Jeremy about billing.

ARCHIVE DVD:

We had an issue with compatibility of the 5 year old DVD. The search platform is not compatible with the latest version of Internet Explorer. One person had an issue and let us know. We were able to offer a temporary fix, but this makes the issue of putting the archive online more critical as a solution.

Omnipress's latest quote for archive hosting is \$9080 for set up and 1 year of hosting and includes multi user names/pw and ecommerce capabilities. Continuing 12 mo hosting is \$2900.

SOCIAL MEDIA COMMUNICATION CHANNELS: LinkedIn – currently, CAD has 903 members, up 5 since January 2014. Recent posts to the members include CAD RETEC 2014 announcements and news of Bob's Charvats passing.

Facebook –There are 47 followers of the SPE CAD page, up 1 from January 2014 Twitter – has 98 followers, same since January 2014. 157 tweets have been posted to date.

NAME: SPE CAD **HANDLE:** @CADRETEC. **ACTION** --QR Code for conference page and links. Annual Communications Plan Thanks to Jeff Drusda who has taken our annual communications plan has started a new

reminder process where the plan is reviewed and reminder emails are sent as appropriate. **ACTION:** Jeff D to send out latest Communications Plan 2014 to the Board. Elections: We will revisit our online balloting process. We want to capture analytics on who is

opening/received the ballots vs number of people voting. The goal is to get more participation by voters in future elections. Committee will also investigate Constant Contact or similar service (options vs benefits vs risks vs. cost). The pricing structure for 501.

SPE CAD Conference Archive A subcommittee was formed to identify and resolve concerns around posting and managing the archive online. Subcommittee is Tracy Phillips, Sharon Ehr, Austin Reid, and Nathan Karszes. Findings were presented at the Winter 2014 Board meeting but no final recommendations were made yet.

Newsletter – J. Przybylski

The next CAD Newsletter will be issues around March/April.

Communications Excellence Award

CAD was again awarded the SPE Gold Communications Excellence Award. The Award was accepted at the Sunday Awards Luncheon by Ann Smeltzer. Thank you to Paul Bykowski for his excellent job in completing and submitting the application.

RETEC Communications at ANTEC-

Earl B suggested that in future ANTECS placing the cards in distribution packets rather than sprinkling cards around the conference.

Education Committee – S. Goldstein

Steve has received additional comments and will re-issue the next course. Question has arisen regarding disclaimer. Steve will add disclaimer on first and last page. Brian will determine which language should be used for disclaimer on courses in other languages. Need to be thinking about subject for next course.

Terra State Community College – Going through transition to University of Toledo and Northwest state. Have funding to prepare a building and buy equipment for the Coloring of Plastics program at University of Toledo Scott Park Campus. Terra State has gone through some staff reductions and enrollment continues to decline. Government assistance for financial aid has declined. Program is on temporary hiatus. Distance classes are ongoing. Jamie requested that the board promote the distance class.

Book Volume 2 – Bruce and Roger are trying to solicit volunteers and are discussing options to proceed.

Endowment Committee – G. Rangos

George thanked Ann and Jamie for publicity at ANTEC and in newsletter. George thanked Mark for e-blast and developing online application. Updated application is on website and has been forwarded to SPE.

George is aware of two current applicants. George asked board members to promote.

Deadline for scholarship applications will be June 1.

Awards Committee – R. Reinicker

Roger thanked the paper reviewers for ANTEC. Roger has transferred responsibility to Tom Rachal, the new committee chair. An HSM award nomination was submitted for Howard Kennedy. The application was not approved. The response was that the application did not reflect his known accomplishments. Roger distributed the letter. Section participation helps but it had become more difficult. Need to nominate someone for HSM or Fellow as part of the Pinnacle process for at least every two years. Tom will coordinate application nomination process with Aram Terzian.

Pinnacle Award – Ann Smeltzer received at Awards luncheon. Communications Excellence Award – Ann Smeltzer received at Awards luncheon

Technical Content Review – R. Reinicker

Jack and Jim will co-chair the committee. Roger will share the process with them.

Membership Committee -J. Ladson

To SPE CAD BOD, SPE Membership Report CAD D21 Color and Appearance From the AVECTRA DB here is the Division data report ending 3JAN2014.

The SPE Data are available. See Chart. Respectfully submitted,

Category b	Membership					
	2013		2014			
	APR	JUL	JAN	FEB	MAR	APR
SPE Society			13,708	13,896	13,895	13,676
CAD Active	593	857	829	833	836	823
New members	4	-	3	-	-	1
Lapsed Members	21	328	161	167	68	70

Jack Ladson
Chair, Membership
Committee

Public Interest Committee –

B. Puckerin Betty Puckerin

reviewed the results of the
survey from RETEC. See

Appendix C.

International Committee – B. West

Goal is to have Portugese version completed next, but it's not due until later this year.

Color Advisory Group – J Ladson

To SPE CAD BOD Color Advisory Group Report

US Color Community

The following activity is occurring in the color community: The next meeting of the CIE Division 1, the ISCC and the ASTM is occurring during the week of 16JUN2014. This is one week of meetings held at the NIST in Gaithersburg, MD. NIST is a government facility and Pre-registration is required. NO exceptions, period. Information and event registration forms are available at www.ISCC.org. If you are a foreign national, registration closes this week.

Ongoing Activities ASTM

BYK-Gardner is paving the way for a standard written around the BYK-Mac. The requisites terminology is in place. 3M is developing a P&B statement for retro reflective materials. E308 is being balloted to eliminate Table 6 by transferring it to an appendix. Table six is a able of values used to determine the spectral reflectance -transmittance factor of a specimen by correcting the instrument band pass. The big 5 are expected to change the software, accordingly. This primarily affects those who have written their own software. D2244 has been changed to be more accommodating to the Hunter Lab Color system initiated by Richard Hunter in 1954. These equations are used in coil coating and related industries. The NCS Color System is approaching a standard. High visibility for individual safety has been disbanded. BYK is conducting a round –robin determining P&B of visual gloss differences. ASTM is not publishing the Color Appearance Compilation of Standards. They are pursuing other publishing vehicles.

Ongoing Activities ISCC

The ISCC meeting is occurring as described previously. Here is the program for Wednesday

- **Evaluating Spectrophotometric Uncertainty.** Hugh S. Fairman, Resource III, Inc., Tatamy, PA USA; Jack A. Ladson, Color Science Consultancy, Yardley, PA, USA
- **Toward a Unified Method for Computing Tristimulus Values.** Changjun Li, Liaoning University of Science and Technology, Anshan, China
- **Age-and Field-Size-Parameterized Calculations of Physiologically Significant XYZ Colour-Matching Functions.** Jan Henrik Wold, Ivar Farup, Gjovik U. College, Norway
- **Virtual Reality as a Surrogate Sensory Environment for Evaluation of Human Luminous Environment.** Mojtaba Navvab, U. Michigan Ann Arbor MI, USA
- **Review on One Aspect of Colour Quality: Visual Appreciation.** Sophie Jost, Université de Lyon, Ecole Nationale des Travaux Publics de l'Etat, Laboratoire Génie Civil et Bâtiment, Vaulx-en-Velin, Lyon, France
- **Slope of the Self-Luminous Gray Scale: Independent Converging Evidence.** Robert C. Carter, Pennsville, NJ, USA
- **How to Control Color Appearance Within the Interior Automotive Supply Chain.** Walter Franz, Datacolor AG, Switzerland
- **Specification of Gonioapparent Color and Appearance.** Larry Steenhoek, Jeff Alspach, Allan Rodrigues (retired), Axalta Coating Systems, Wilmington, DE, USA
- **xDReflect, a European Joint Research Project devoted to the metrology of the appearance of surfaces.** Gaël Obien, Laboratoire Commun de Métrologie LNE-CNAM, La Plaine St Denis, France
- **Chromaticity of White.** Kevin A.G Smet., Geert Deconinck , Peter Hanselaer, University of Leuven, Ghent, Belgium
- **Assessing Color Rendering Without Test Samples.** Lorne Whitehead University of British Columbia Vancouver, British Columbia, Canada
- **Color Rendering and Museum Lighting: Field Study Based on Refurbishing the Lighting of the Sistine Chapel.** Janos Schanda, Péter Csuti, Ferenc Szabó, University of Pannonia, Veszprém, Hungary
- **Toward a Unified Nomenclature in Fluorescence Spectrophotometry.** James E. Leland, Copia LLC Goshen, NH, USA
- **Evaluation of Targets for Color Calibrating Digital Color Images from Optical Bright-Field Transmission Microscope.** Hong Wei, Michael Brill, and Tae Park, Datacolor, Inc. Lawrenceville, NJ USA

Ongoing Activities of the CIE Division I -Vision and Color

TC1-94 (V) Visually Meaningful Spectral Luminous Efficiency Functions (Chair: Janos Schanda HU) Terms of Reference: To propose new 2 degree and 10 degree photometric observers based on the work described in CIE Publications 086:1990 and 165:2005, as well as that of CIE TC1-36 Fundamental chromaticity diagram, and study their use in practical photometry

TC1-69 Colour Rendering of White Light Sources

The final report is in preparation It will issue no recommendations The work is continuing under TC1-90 Colour Fidelity Index and TC1-91 New Methods for Evaluating the Colour Quality of White-Light Sources, which were started last year.

The following TC's are planning to meet in June.

TC1-63

Validity of the Range of CIEDE2000 TC1-71

Tristimulus Integration TC1-75

A Comprehensive Model of Colour Appearance

TC1-81 Validity of Formulae for Predicting Small Colour Differences

TC1-82

Calculation of Colour Matching Functions as a Function of Age and Field Size TC1-85

Update CIE Publication 15:2004 Colorimetry

TC1-89

Enhancement of Images for Colour Defective Observers TC1-90

Colour Fidelity Index

TC1-91 New Meth for Eval the Colour Quality of White-Light Sources

Ongoing Activities of the CIE Division 2 -Physical Measurement of Light and Radiation

The CIE Lighting Quality and Energy Efficiency Conference, Kuala Lumpur, Malaysia, which will include the 2014 Division 2 meeting occurred last week. There are no published minutes and no new schedule posted. The contention between Luo and Ohno on the Quality Color Scale for LED's and competing scales continues.

Ongoing Activities AIC

Next meeting:

2014 AIC Interim Meeting 21-24 October 2014, in Oaxaca, Mexico Theme: "Colors, Culture and Identity: Past, Present and Future"
Organizer: Amexinc (Mexican Association of Color Researchers)

DCC

The DCC has not held a meeting.

Respectfully submitted,

Jack Ladson

Jack A Ladson

Chair Color Advisory Group

Old Business – All Action items as noted in Appendix D

New Business – All

Location and date of next meeting will be determined at a later date..

Steve suggested discounted fees for multiple attendee discounts for RETEC. Consensus is that it is too late to consider for 2014 RETEC. We will evaluate attendance of 2014 RETEC vs Hotel Room Block. This subject can be discussed for future RETECs.

Scott proposed increasing silver sponsorship from \$1000 to \$1250 so that it is 50% of gold starting with 2015. Motion made Sandy then seconded Brian.

Bruce – Bruce distributed an email from the ISCC regarding recent changes in by-laws. Specifically:

ISCC asks member bodies:

- to provide current liaison contact information and to keep ISCC informed about your activity, so that we may promote it in the ISCC Newsletter and website.
- to promote ISCC activities of interest to your members

Jack discussed extending color education program beyond Terra Tech. Jack has compiled a summary of colleges which offer color courses. Jack would like to submit a proposal at next meeting. See Appendix E.

A motion to adjourn the meeting was made by Earl with Tom seconding. All approved and the meeting closed.

Minutes respectfully submitted,

Brenda Mullins Secretary, CAD
BOD

Appendix A (Treasurer's Report)

Color and Appearance / SPE

Date: Location: April 29, 2014 Board of Director's Meeting Rio All-Suites Hotel & Casino; Las Vegas, NV

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Obtain update on new website from Jeremy Hodge	Mulholland, Bruce	West, Brian	ANTEC 2014	Open
Establish committee membership for ANTEC 2016	McLendon, Diane	Willis, Michael	ANTEC 2014	Open
Select Chair for Technical Content Review Committee		Ann Smeltzer	ANTEC 2104	Open
Obtain update on new website from Jeremy Hodge		Tracy Phillips	ANTEC 2104	Open
Establish committee membership for ANTEC 2016		Austin Reid	ANTEC 2014	Open
Select Chair for Technical Content Review Committee		Ann Smeltzer	ANTEC 2104	Open
From Fall 2013 Meeting		Assigned to	Due	Status
Talk to Jaimie Gomez about new website structure		Tracy Phillips	ANTEC 2014	Open
Find alternative website builders		Tracy Phillips	ANTEC 2014	Open
Review next course "Specifications and Test Methods For Colorants" and provide feedback to Steve Goldstein		All Board Members	ANTEC 2014	Open
From Summer 2013 Meeting		Assigned to	Due	Status
Develop detailed proposal for online archiving		Archive Subcommittee	ANTEC 2014	Open
Write letter to SPE opposing elimination of member number		Jack Ladson	RETEC 2013	Closed
From Spring 2013 Meeting		Assigned to	Due	Status
Apply for Trademark of CADNEWS		Bruce Mulholland	Winter 2014	Closed
From Fall 2012 BOD Meeting		Assigned to	Due	Status
CAD Course in Portuguese		Brian West	Fall 2014	Open
From Winter 2012 BOD Meeting		Assigned to	Due	Status
Present Voice of Consumer questions and list of			Winter	

750.00

Date: Location: April 29, 2014 Board of Director's Meeting Rio
 All-Suites Hotel & Casino; Las Vegas, NV

Present

Attendance

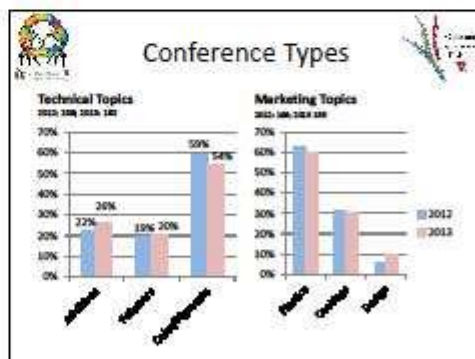
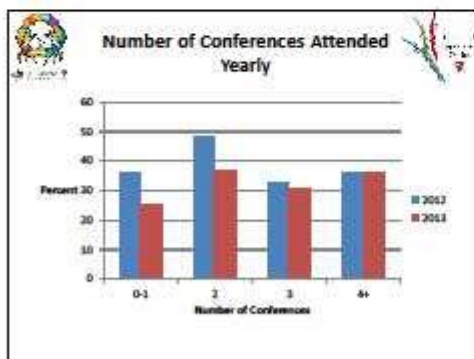
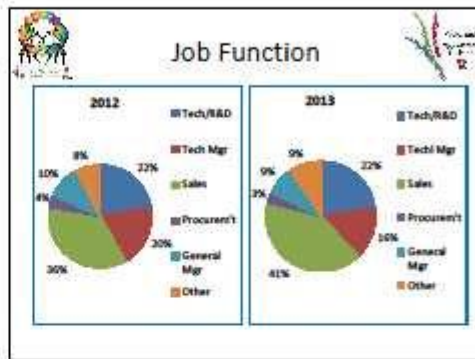
Absent:

:

Aumann, Scott	Mullins, Brenda	Drusda, Jeff
Balthazar, Earl	Phillips, Tracy	Ehr, Sharon
Becker, Doreen	Przybylski, Jamie	Figaniak, JIm
Bodi, Alan	Puckerin, Betty	Freshwater, Mark
Button, Hal	Rachal, Tom	Heitzman, Scott
Bykowski, Paul	Rangos, George	Lavieri, Frank
Chirayil, Tom	Rediske, Jim	Reid, Sharyl
Davis, Sandra	Reid, Austin	
Esker, Steve	Reinecker, Roger	
Goldstein, Steve	Smeltzer, Ann	
Karszes, Nathan	Treat, Cheryl	
Ladson, Jack	Tyler, Mark	
Mulholland, Bruce	West, Brian	
McLendon, Diane	Willis, Michael	

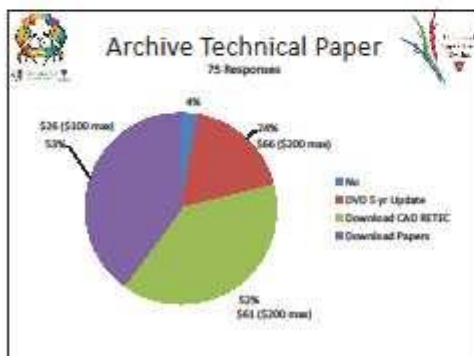
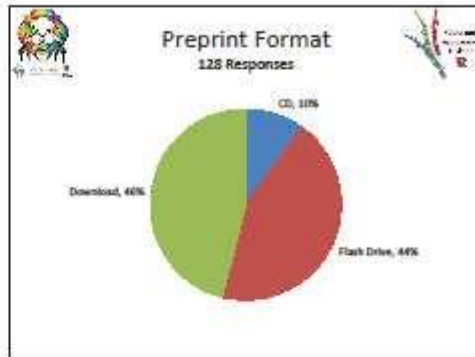
From Jan 2014 Meeting	Assigned to	Due	Status
Obtain update on new website from Jeremy Hodge	Tracy Phillips	ANTEC 2014	Open

2013 CAD RETEC Survey Results



Other Conferences


ACCE, ACS, AGA, ANTEC, AM Coatings Show, AMI Thermoplastics, AMZ Compounds, AbraFl 2013, Bioplastics
 Caps & Closures, China Wat, Chinaplast, Composites, Cosmetics, E&E Conference, ECS, East PAK, Europlast, European Coatings Show
 KSM, IMC Conference, International Polyolefins
 F-TT Series, Flex Pack, Fbertech
 K-Show, NAPM, NCS Coatings Show, NPE, Nuremberg Coating Show
 Paint Show, Plastic Expo, Print 13
 Rubber Expo
 SAMPE, SCC Society Cosmetic Chemist, SPI, SPE Vinyl Tech
 TAPP, TPO
 Polyolefins RETEC
 WCS, World of Concrete



Sunday Opening Reception


Reception Time	Hotel	On-Site	Total
8pm - 8pm	51	2	53 (43%)
8pm - 11pm	61	7	70 (57%)
Total	112 (90%)	9 (7%)	

Suggestions:
 City specific, i.e. New Orleans French Quarter
 Bar with better sounding rooms for Color Eye Blind
 Hardrock Cafe



Meeting Expectations

- Did this meeting meet your expectations?
 - Definitely 52 (40%)
 - Mostly 66 (51%)
 - Somewhat 6 (5%)
 - Not really 0
 - Not at all 0
 - No response 5 (4%)
- Would you recommend CAD RETEC attendance to your colleagues?
 - 126 responses
 - Yes 99%
 - No 1%
 - 1 response by GM/sales stating mostly met expectations: "Ask Why!"



Registration Process

- How do you rate the registration process versus other conferences?
 - Better 48%
 - Worse 0%
 - About same 52%
- How do you rate the information provided in the registration packets?
 - Too Much 2%
 - Not Enough 3%
 - About Right 95%



Registration Process

What information would you like to see included in the packets?

- CD copy of technical presentations, book with abstract or lectures, print off of presentations, flash drive
- List of booths and short descriptions of companies, info on exhibitors, map of vendors
- Digital attendee list, attendee email or contact, attendees, attendee list alphabetical by company name (DL, email list for non-members, larger font attendee list)
- Internet passcode
- Dining guide (5), area attractions (2)
- Mention of hospitality suites & locations
- More drink tickets
- New member features
- Agenda
- Map of hotel, summary of where events are located
- Schedule
- CAD Notepad or notebook (letter size)
- More info on ANTEC, next year's RETEC, SPE events



Registration Process

What information would you like to see removed from the packets?

- Local tourist materials
- Infuser
- Most give aways
- Do not need the postcard reminder
- The pins



Registration Process


Any other comments regarding the registration process?

- Small fold-up meeting planner is excellent
- Website registration can be confusing and is not easy for multiple registrations
- Very smooth & hassle free
- Show the city and country of registrants on their badges
- Give tag to sponsors on their badges



Suggestions for improvement Conference Organization

With index published
Keep it like this year
Have "table time" not outside of paper presentation (you don't have to make alterations to shift table top)
Additional breaks scheduled in to allow for meetings, networking
Registration matter
Registration starts at 8 pm vs. 7pm
Show AP for phone (attendee)
Not on record for Monday morning
Check papers on time (afternoon 10 day or more)
Arrive to the exhibition hall that each table are lighting
Several attendees could not get into the hotel - reserve rooms now?
Hotel - New York, NY
Do not schedule the lunch reception to papers - this year a little early
Breakfast from presentations - on on the information available from presentation
Printable brochures in table time, better per page brochures to reach presenter
Portable microphones in the show state 1 or 2
Don't make show hours
Larger
Perhaps more outdoor participation opportunities
Breakfast offering something
Monday - Thursday show (presented on weekend)
Showings throughout not only at show



Suggestions for improvement Technical Program

Make business, at large presentations
New sessions (sequential)
1. Color Tech 2. Additives 3. Proxams
4. New Tech 5. Testing 6. Adhesives
Keep it like this year
Did not like the "future trends" panel discussion this year
Send today's guest speaker - would have to listen to him but realize the first, better planned & coherent panel discussion
Highways & effect
Key papers on time (afternoon 10 day or more)
Love guest speakers, wish we had more of them - had CN's like Under Armour
About color
More technical topics regarding water (performance for instance)
Compositing technology
Screen all papers more thoroughly (eliminate sales pitches)
Marketing information presented
Regional/global data on market day trends
Focus on new technology
More case studies - problems/solutions - less general presentations



Suggestions for Improvement Others stuff

Turn down volume of Color Eye blind
Food at Reception was terrible, better reception food
Opening reception to include more hot appetizers
Display more "900" to promote more attendance
Lower volume at reception - regardless of room size, lower band volume
New band that plays at a lower volume - it was hard to converse at the reception, band at reception was quite loud (too much - more breaks)
Bad background music at networking reception, better music for reception
Make level at reception difficult to carry on conversations
Reception matter
Provide attention for a week prior so meetings can be set up
Show AP for phone (attendee)
Fun AP for phone
T-shirt with package
Much of the technology talks were repeats of already announced materials, not really new - suggest they be focused on one of two truly new technologies
Always include 1-2 papers/brochures table industry - brand names, registration, etc.



Topics for future meetings

Issues of joint consumer/Plastic Industry – look to process

Effect pigments

- More regulatory issues, continue updates on regulatory issues (e.g. Blue Heart paper)
- Carbon black & additives
- Additives – how they are used to correct/improve
- Color approach – supplier side vs. buyer side

Pigments and extrusion problems

- Scientific topics about colorant distribution in polymers
- New characteristics of pigments, more chemistry of colors, pigments, colorants
- Performance, limitations and usage of pigments
- Color concentrations
- More color, less TIC
- Color analysis – repeatability of color in a process (including measurement)
- Technology improvements & advancements
- Improving cost without lowering quality
- Green building products
- Recycling plastics
- Coloring of medical devices
- Scientific extrusion over/under/temperature of spectrophotometry
- A reference on basic info on color to draw new customers to plastics
- Formulation tips – more identification
- Interactions of color and additive
- Fundamentals



Topics for Future meetings Marketing


Business/strategy presentations

- Business info – plastics industry, break down looking at market
- More on current challenges and future challenges, considerations
- More international business
- More topics about converter trends – what processing limitations are encountered/overcome with colors
- More end user talks, consumer product, automotive
- Trends in organic pigments
- More masterbatch & market driven presentations
- Brand owners view on color
- Threats to color plastics, alternate technologies,



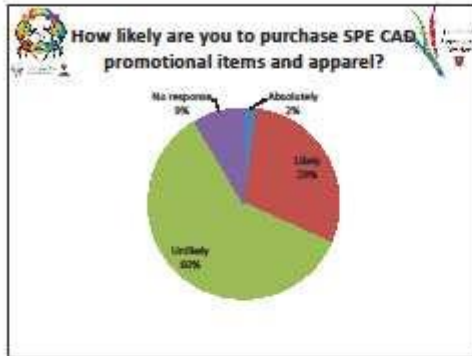
Services of value?

- Combine with additives (no eye rolling, sorry)
- List employment opportunities
- Make sure everyone has easy access, free internet
- Provide attendees list & contact info
- Put new technology forum presentations online
- Recruitment services, job placement potential, job postings during poster sessions
- Free Wi-Fi included would be a plus, free Wi-Fi in exhibit area
- We need to target the millennial generation & that is with technology. We need to show this off to attract the younger & future of our industry
- More WebEx's
- Discuss real environmental problems (burning, shrinkage) and how to solve it may be of value for different divisions to be represented such as CAD at Vniitler, etc.
- More tracking & reporting of industry issues like regulations
- Educate high school kids by having controlled experiments or even at science institutes as the exposure to color and appearance to the younger generation is missing in our educational systems.



Color of Plastics: Volume II

- Do you know an author for one the Color of Plastics: Volume II Chapters?
– Joe Fay, Doreen Becker, Mark Ryan



Additional Comments

Is it possible to sponsors organizations to attend?

Raffle free registration for so many people from the same company?

Offer discount on registration if you loving more people? (I think they mean to get more people to attend?)

Appendix D

Action Item List Reviewed in Spring 2014 Board Meeting

Date: Location:

April 29, 2014 Board of Director's Meeting Rio
All-Suites Hotel & Casino; Las Vegas, NV

Present

: **Attendance** **Absent:**

Aumann, Scott	Mullins, Brenda	Drusda, Jeff
Balthazar, Earl	Phillips, Tracy	Ehr, Sharon
Becker, Doreen	Przybylski, Jamie	Figaniak, JIm
Bodi, Alan	Puckerin, Betty	Freshwater, Mark
Button, Hal	Rachal, Tom	Heitzman, Scott
Bykowski, Paul	Rangos, George	Lavieri, Frank
Chirayil, Tom	Rediske, Jim	Reid, Sharyl
Davis, Sandra	Reid, Austin	
Esker, Steve	Reinecker, Roger	
Goldstein, Steve	Smeltzer, Ann	
Karszes, Nathan	Treat, Cheryl	
Ladson, Jack	Tyler, Mark	
Mulholland, Bruce	West, Brian	
McLendon, Diane	Willis, Michael	

From Jan 2014 Meeting	Assigned to	Due	Status
Obtain update on new website from Jeremy Hodge	Tracy Phillips	ANTEC 2014	Open
Establish committee membership for ANTEC 2016	Austin Reid	ANTEC 2014	Open
Select Chair for Technical Content Review Committee	Ann Smeltzer	ANTEC 2104	Open
From Fall 2013 Meeting	Assigned to	Due	Status
Talk to Jaimie Gomez about new website structure	Tracy Phillips	ANTEC 2014	Open
Find alternative website builders	Tracy Phillips	ANTEC 2014	Open
Review next course "Specifications and Test Methods For Colorants" and provide feedback to Steve Goldstein	All Board Members	ANTEC 2014	Open
From Summer 2013 Meeting	Assigned to	Due	Status
Develop detailed proposal for online archiving	Archive Subcommittee	ANTEC 2014	Open
Write letter to SPE opposing elimination of member number	Jack Ladson	RETEC 2013	Closed
From Spring 2013 Meeting	Assigned to	Due	Status
Apply for Trademark of CADNEWS	Bruce Mulholland	Winter 2014	Closed
From Fall 2012 BOD Meeting	Assigned to	Due	Status
CAD Course in Portuguese	Brian West	Fall 2014	Open
From Winter 2012 BOD Meeting	Assigned to	Due	Status
Present Voice of Consumer questions and list of interviewees and propose method of implementation	Betty Puckerin	Winter 2014	Closed

Treasurer's Report

Date: Location:

April 29, 2014 Board of Director's Meeting Rio
All-Suites Hotel & Casino; Las Vegas, NV

Present

Attendance

Absent:

	Attendance	Absent:
Aumann, Scott	Mullins, Brenda	Drusda, Jeff
Balthazar, Earl	Phillips, Tracy	Ehr, Sharon
Becker, Doreen	Przybylski, Jamie	Figaniak, Jlm
Bodi, Alan	Puckerin, Betty	Freshwater, Mark
Button, Hal	Rachal, Tom	Heitzman, Scott
Bykowski, Paul	Rangos, George	Lavieri, Frank
Chirayil, Tom	Rediske, Jim	Reid, Sharyl

Date: Location:

April 29, 2014 Board of Director's Meeting Rio
All-Suites Hotel & Casino; Las Vegas, NV

Present

Attendance

Absent:

Aumann, Scott	Mullins, Brenda	Drusda, Jeff
Balthazar, Earl	Phillips, Tracy	Ehr, Sharon
Becker, Doreen	Przybylski, Jamie	Figaniak, Jlm

CA	CA State - Long Beach	Color Theory		X
	CA State University - Sacramento	Art/Design	X	
	City College in San Fran	Color Theory in Photography		X
	Cuesta College - San Luis Obispo	Art 229 Color/Fine Arts	X	
	Fresno State University	Interaction of Color Class	X	?
	San Fran State University	Int Design Color	X	
	UCLA Extension - LA, CA	Color Theory		X
	University of CA, Santa Cruz	Color Theory and Practice		X
		Color Printing		
	IACC, San Diego, CA	Seminars for Color and Environment	X	?
CO	University of Denver	Color Theory		X
CT	University of Harvard	2D Design, Black and White, Color	X	
FL	Florida A&M	Color Course	?	?
	Florida State University	Color Course	?	?
GA	Atlanta College of Art - Atlanta	Color Projects	X	
IL	Harrington Institute of Interior Design	Colors in Design	X	
KS	Fort Hayes State University	Art Dept - Color Course	X	
KY	Eastern Kentucky University	Art Dept - Color Course	X	
	University of Kentucky	Art Dept - Color Course	X	
	Western Kentucky University	Art Dept - Color Course	X	
MD	Villa Julie College	Art Dept - Color Course	X	
MA	Boston Architectual College	Color Course	X	
	Fitchburg State College	Graphic Design - Color	X	?

Appendix E

MI	College for Creative Studies College	Color and Light	X		
	Western Michigan University	Art Dept - Color Course	X		
MN	University of Minnesota - Twin Cities	Color Design	X		
MO	Central Missouri State University	Art Dept - Color Theory and Design Principles	X	?	
	Southwest Missouri State	Color Theory		X	
	University of Missouri - Columbia	A dedicated course - Color Theory		X	
NE	University of Nebraska - Kearney	Art Dept - Color Course	X		
NY	Pratt Institute	Light and Color	?	?	
	RIT			X	
	SUNY Purchase College - State University of NY	Color Theory and Applications		X	
	University of Buffalo - Online	Dept of Architecture - Color and 3D Space	X		
NC	Appalachian State University	Art Dept - Color Course	X		
OH	Columbus College of Art and Design	Color Courses	X		
	Terra Community	Color Science		X	X
PA	Art Institute of Pittsburgh	Color Theory		X	
	Carnegie Mellon	Color and Communication Course	?	?	
	Moore College of Art	Color Course	X		
	Moravian College - Bethlehem, PA	Color	?	?	
	Penn College	Coloe		X	
OK	Oral Roberts University	Art Dept - Color Course	X		
RI	Rhode Island School of Design	Color in Design	X		
TN	Memphis College of Art	Color, Form, Painting	X		
	University of Memphis	Art Dept - Color Course	X		
TX	Austin Community College	Color Theory		X	
	San Antonio College	Design III - Color Theory	X	X	
	Texas A&M Corpus Christi	Design 3 - Color Class Summer	X		

UT	Salt Lake Community College	Theory and Psychology of Color	X	X	
VA	Virginia Commonwealth University	Color and Light	X	X	
WA	The Seattle Academy of Fine Art	Color Theory in every painting course	?	X	
		Very specific programs in Color Theory	X	X	
	Cornish College of the Arts	Several Color Courses	?	?	
	School of Visual Concepts	Color Course	?	?	
WY	University of Wyoming	Art Dept - Color Foundation Course	X		

