CHAIRMAN'S MESSAGE

Greetings to y'all from Virginia:

For those who have not heard, I have changed my plastic's coloring hat to one that uses additives instead, and the new hat is certainly one that I am slowing and surely growing into.

Spring is finally here and my term as your CAD Chair is also coming to an end. When ANTEC™ 2007 in Cincinnati ends on May 10th, I will move to Past-Chair. It has been a very quick year. I have chaired three Board Meetings, missed the RETECT™ in Cincinnati because of my daughter's wedding, have seen the fruition after several painful years of trying to get the new CAD web-site up and running and the CAD Endowment Fund gave out its first scholarships.

From all accounts, I heard that the Cincinnati RETECT™ went very well. I arrived back in Cleveland at 2:00 in the afternoon, drove to Huron to get a new set of clothes and then drove to Cincy in about 4.5 hours so I could chair the BOD meeting the next day. Since I covered it in the last issue, I will not say much about it. Just know that each RETECT™ conference you attend, has taken approximately three years to come about. Much though, planning and, yes, even some testy moments, take place from the time we spend on site and theme selection, art work and the final weeks of getting all the plans into what you see. The members of the Board are very dedicated and motivated to produce conferences that you will learn something new from and provide a forum to speak to your peers in a professional manner.

I encourage all members to visit the new web-site at www.specad.org and see how much better it is to view. You can find contact numbers for your Officers and BOD members, the BOD Meeting minutes, links to our sponsors, etc. In addition, information for the 2007 Election of Board of Directors is there, along with a ballot you can use, though all should have received a paper ballot through the mail. Election is open until April 12th. We have info on the upcoming ANTEC™ and RETECT™ on the web-site. It is very exciting to see this new site up and running!

The Color & Appearance Division offered Scholarships for the first time during my term. This is another program that your CAD Board has been working on for some time through our Endowment Fund. The interest from the Endowment Fund provided $20,000 in money that was given to 5 students. I encourage our members with sons and daughters to apply and suggest that CAD members apply for themselves if you are trying to further your education.

continued on page 2
Our Division won the 2007 Pinnacle Gold Award offered by the ISPE. This award embodies all aspects of the activities your CAD Board does during any given year. As I stated before, your elected group of BOD members are volunteers in the true sense of the word, expecting only to hear a "Good job" from our members every now and then. Certainly, the annual RETECT™ in the place we hear that most often. We also like to here about any problems / criticism you, as an attendee, may have to say as well. It is only through constructive remarks that we can better our Division for all. Use the Web-site to find out the BOD member names and contact them. We do like to hear from the members.

I want to thank Barb Parker for being Newsletter Editor for the past year, and, specifically for goading me to get the Chairman's message out in time… Hers is a somewhat thankless, but necessary job. I know as I was Newsletter editor for 9 years in the Ohio Firelands Section. We are looking at going electronic in the near future.

I especially want to thank members of the Executive Committee, Sandy, Tracy, Sharyl, Bruce and Austin for their contributions to the CAD during my term.

Lastly, I would like to thank all the members of the Board for their support and advice throughout this past year.

Best regards to all,

Dave Johnson
CAD CHAIRMAN

EDITOR'S NOTE

Hello to all;

It is a bright sunny day here in the Wine Country as I write my column. I am really excited about this issue - it is filled to overflowing! The CAD Endowment scholarship program information is really exciting - we are reaching out and granting a number of scholarships to students interested our industry. We also have a really nice article on our Honored Service Member, Terry Golding!

I have included articles on color - the first, We Got the Blues, describes our obsession with blue and the second, Analysis of Colorants in Plastics with Speed and Execution is from Sun Chemicals - very interesting! Finally, I have included a quiz that will "test" your knowledge of our six part article on the history of pigments - check out Pigments of Imagination.

Please take the time to peruse through our advertising pages. Besides providing support to help offset the cost of the newsletter production, these folks bring a wealth of knowledge and information to the table. Just tell them you saw their ad in the CAD Newsletter!

I would like to take this opportunity to solicit the membership for articles of interest in the area of color. If you have read a really good piece in a technical journal or found and interesting site on the web that you would like to share, please forward the information onto me at barbara.parker@jdsu.com.

Happy Spring!!

Barb Parker
Barb Parker
EDITOR

Invitation to Attend Our CAD Board Meetings

The Color and Appearance Division regularly holds Technical Program Committee (TPC) and Board of Director (BOD) meetings at the ANTEC™ and the RETECT™. In addition, a Summer BOD and TPC meeting are typically held about 6 weeks prior to the RETEC, and a Winter BOD and TPC meeting are held in early January. The Summer meeting is scheduled in various locations; the Winter meeting is typically held at the site of the RETEC that is a year and a half away. Any SPE/CAD members who wish to attend are welcome at these meetings. Contact the Division Chairman (see the back cover) for information on the location and times of any of these meetings.
Quality Pigments Producer In China

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### Heat Resistance in HDPE

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OPENING/WELCOME (SANDY DAVIS)
The meeting commenced at 8:30 am with a welcome from Sandy Davis. Tom Mestdag was introduced as a special guest, Chair of Additive and Colors Europe (ACE) Division.

SECRETARY’S REPORT (TRACY PHILLIPS)
Motion was made to accept the minutes as written. Minutes of the last meeting of 8/9/05 were approved.

TREASURER’S REPORT (BRUCE MULHOLLAND)
Bruce presented the treasurer's report. The beginning balance as of 7/01/2005 was $53,868.48 with deposits of $39.29, expenses of $9,055.06. A $100 gift card was purchased for Joyce (Peacock Graphics). All pending expenses are gone. The ending balance on 08/31/05 was $44,852.71.

The annual report will be audited by the finance committee. The starting balance on the annual report on July 1st, 2004 was $249,095.20. The endowment fund entry on line 15 moves it to the endowment fund allocation. The ending balance on the annual report ending on June 30, 2005 was $337,035.25 (including endowment fund total). A motion was made to accept the treasurer's report, second motion was made, and all in favor passed it.

COUNCILOR’S REPORT (SHARON EHR FOR AUSTIN REID)
Sharon reports the Pinnacle Award is a little more attainable now. It is based on a point system with 3 levels: platinum, gold, silver. The Pinnacle award goal is to increase membership.

The Council meeting’s major discussion was bylaw changes. The Council is planning to dissolve the constitution and regenerate it with new bylaw. Doing so will fix holes in the current constitution and will modernize the bylaws, in particular to make the balloting process more compatible with today’s technology. The current by laws say balloting must be done by letter and 20% must be returned within 30 days to have a valid election, possibly requiring several mailings. If the ballots in the next election can be returned online or by email has to be determined. We need to encourage and promote voting.

ANTECTM TECHNICAL PROGRAM COMMITTEE BRUCE MULHOLLAND
ANTECTM 2006 (Charlotte, NC) – Sharyl Reid & Steve Goldstein
The abstract deadline is middle October 2005. After the January deadline, no changes to program can be made.

ANTECTM 2007 (Cincinnati, OH) – Scott Heitzman
Kathryn Brannon will co-chair.

ANTECTM 2008 (Milwaukee, WI) - Ann Smeltzer & Marty Paisner
ANTECTM 2009 (San Antonio, TX)
ANTECTM 2010 (Orlando, FL)
ANTECTM 2011 (Boston, MA)

RETECTM Technical Program Committee (Sandra Davis)
Overall comments have been good. The preprint issue will need to addressed in the future. The BOD thanked Earl for doing a fine job. CDs-50 remain; Sharon to send to SPE International. CD print on demand is possible for the next 6 months. Official notification of the forced measure cancellation was received from the New Orleans Fairmont. A deposit refund should be on its way after lawyers and accountants finish.

RETECTM 2006 (Cincinnati, OH) – Scott Heitzman/ Bruce Mulholland – Sept. 17-19
Call for papers was part of the RETECTM 2005 registration packet. The technical program on Monday will be focused on educational papers. The Hotel contract is signed. The Logo is complete. Bruce will be in charge of registration. Oktoberfest could be going on around the selected dates. Early hotel and event reservations will be important because of the possibility of conflicting events.

Scott has a vision of focusing the conference papers towards basics since the location is ideal for manufacturing and technical attendance. One idea offered is to have Bob Charvat’s course offered to all (subsidized by CAD) and to have suppliers add more information to it. The committee is looking into imbedding the course into Sunday and Monday (i.e., basics-organic; basics-inorganic ). Roger suggested that people apply to participate. Sandy suggested that a minimal fee be charged to get people to commit and cover our costs. Committee to decide.

SIDEBAR: NEW LOGO:
Steve Eskers presented proposed versions of the new SPECAD logo. They will be voted on at the January 2006 board meeting.

RETECTM 2007 (San Antonio, TX) – Tim Reilly, Jim Figanik – Oct. 1-2
The core committee has been formed. Additional helpers also volunteered as well. Tim will send out an email for first committee conference call/meeting. Hyatt gave conflicting information vs. what we saw on the tour and what we have in the contract.

continued on page 5
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Sandy commented that there were gaps in what we scheduled and what they showed that we have reserved. This was noted when we tried to move the New Orleans conference there after Hurricane Katrina. Tim to review with hotel. Brian West recommended that we and the hotel review the final version of the contract.

Earl is compiling the RETEC™ 2005 summary to pass on to Scott and Tim. This should be available in January. Earl and Tracy offered that they are in the region occasionally if any on site assistance is needed.

EDUCATION COMMITTEE
BOB CHARVAT & JAMIE PRZYBYLSKI
Jamie presented in Bob’s Absence. Bob is still waiting on chapters for new books and “is on his knees begging”. Contact Joe Cameron to get the template.

Terra update: This fall enrollment is lower than in past years. People are less interested in sending kids to manufacturing job training. It is a harder sell than it used to be. Terra is working on ways to deal with this issue. One approach is distance learning. In January, the first distance learning based course will be offered, allowing people from outside the area to take Terra courses. Anyone with ideas for courses should email Jamie.

ELECTRONIC ARCHIVE OF RETEC PAPERS
Two quotes were obtained from X-CD and Omnypress, but were difficult to compare because of the different quoting styles. Tracy will get additional quotes by the January meeting.

INTERNATIONAL COMMITTEE
Conrad: A new color group has started in Europe. Tom Mestdag, Chair of group, gave us an overview of the SPE Additives and Colors Europe (ACE) Division. Tom reviewed the past and present situation. The conference was scheduled: some facts (154 ACE members currently), participants/country (impressive growth in 5 years to 129 attendees in 2005, minimal corp. sponsorship, expectation of meals included, tabletop 750 Euro, registration 500ish Euro, tabletops), and how to create synergistic effect in US-EU. Division D45. The CAD BOD agreed to have a tabletop exhibit for ACE at RETEC™ 2006 and for CAD at the ACE March 2007 conference. Call for papers for ACE March 2007 can be done at ANTEC 2007.

Sandy will help Tom Mestdag with guidelines on setting up a technical forum. Brian recommended tracking tabletop participation history so that when growth requires tough decisions about booth placement, the legacy can make the decisions. Brian offered himself as a resource for managing tabletops.

NEWSLETTER COMMITTEE
(BARB PARKER/SHARYL REID)
There was a delay in mailing the last issue of the newsletter when mailing labels were lost or misplaced. SPE called Sandy asking for permission to send the labels to Joyce. It was suggested that Joyce be given authority to get labels direct from SPE. The Newsletter is printed and will be mailed soon.

Gary Conrad commented that the survey ratio of Email:Paper newsletter preference was 2:1. newsletter. Dave Johnson will find out the requirements for distribution by email. This topic will be discussed at the January meeting. Joe Cameron will send RETEC™. 2005 photos to Barbara for the newsletter. 2006 Joe proposed a 2006 RETEC™ project--“perfect heads of color” game for fun.

CAD WEB-SITE (JOE CAMERON)
Sandy recommended that the website committee develop proposals for maintenance and design. Joe commented that the website has been in trouble for a couple of years. Joe made a motion that the BOD set some guidelines and include in those guidelines a limit on how much should be spent on web page development/maintenance and leave it to web page committee to find their best solution and implement. A motion was made for the BOD to discuss, set a dollar amount and allow web page committee to find solution and implement. Discussion was opened and closed.

Joe Cameron amended the motion to respond today with a dollar limitation. The average professional commercial web page is between $10K and $30K/year. Howard Kennedy amended the motion for the web site committee to find a web site provider with a limit of $5000 for initial design and with $500 for annual maintenance USD within 60 days. The motion was seconded and none opposed.

Discussion-Sandy offered milestones.
1) Transfer ownership of domain by Nov 11.
2) Take over hosting of existing site so we can update in interim so we have ability to make changes immediately. Nov 1
3) Web proposal on content and functionality and management, Jan BOD
4) Executive committee comments:
   $10K seemed too high on a yearly basis. Family members could be problematic long term so selecting and independent, professional organization is preferred. Earl added to the comments using the New Orleans RETEC™ as an example. Fortunately, SPE national helped us out tremendously. We need the flexibility to have a contingency plan.

There is currently $1500 in budget. Bruce recommended budgeting $3000 and giving the website committee the authority to make deci-
sions not to exceed $3000. Web site committee will determine if the new CAD website will have a link with ACE or give pages to ACE. ACE currently uses website on SPE.

ENDOWMENT COMMITTEE
JOHNNY SUTHERS
Terra students will be able to apply for grants. Typically, SPECAD gives Terra $10K annually and will continue to do so. Johnny will work with Bruce to move money electronically so that distribution of the scholarship funds will be easier. There was a conference all in August after the last BOD meeting.

Bruce agreed to wordsmith the application form. The documents will be reviewed at the January BOD meeting. The application and details will be posted on the website. Applications are due by March 1. In 2006, the committee plans to offer up to five $4K scholarships. The committee plans to ask the BOD for funding approval in January. A list of scholarship recipients will need to be announced at the RETECTM 2005 Awards Luncheon.

AWARDS COMMITTEE (TERRY GOLDING)
The nominee for Honored Service Member will be Bruce. Oct 30 is deadline. The paperwork is being compiled from sponsors. The nominee for Fellow of Society will be Steve Goldstein. The paperwork is complete and being reviewed. Joe Cameron asked to do a critique before it is submitted.

PUBLIC INTEREST COMMITTEE (GARY CONRAD)
Survey participation was a little down with 85 people responding:
   Willing to serve on the board: 7
   Willing to write an article for newsletter: 9
   Willing to present a technical paper: 13
   Willing to be a sponsor: 7 new
   Willing to travel to sections to give a talk: 25
People responded that they didn’t open their packet perhaps we need more signage and promotion to support the survey and raffle. Konica camera has worked well and will try to continue that as a raffle incentive. Camera Winners: Scott Aumann, EMD and Chris Turbyfill, Kerr McGee.

MEMBERSHIP COMMITTEE (ROGER REINICKER)
Primary membership has dropped slightly from 957 to 887 primary members. With the membership included approach, it has been problematic in getting the form completed. We cannot submit membership without their signature because of privacy issues. It was suggested that the web committee address issues of renewing and new membership as part of RETECTM registration. Sandy suggested that Dave have electronic form attached with receipt. Tracy suggested that web committee address this in redesign. Roger suggested that 2006 registration process be modified include follow up. Roger will contact Dave to included new and returning members in 2005 RETECTM registration.

DIVISION/SECTION TECHNICAL RESOURCE COMMITTEE (STEVE GOLDSTEIN)
Sandy gave an update for Steve. Steve is compiling the responses received so far and may request a committee meeting at Jan BOD.

OLD BUSINESS (ALL)
Reviewed and updated existing action item list.

NEW BUSINESS (ALL)
- Jan Meeting will be in Nashville, TN, Jan 9 and 10.
- Summer BOD meeting in 2006 will likely be in Detroit at Hyatt Dearborn.
- Bruce: Detroit Color Councilor is proceeding for 2008. Bruce has a hotel packet.
- Don Stengel thanked everyone for their support in attending this RETECTM.
- Austin to address issues at the next SPE councilor meeting: scheduling of conflicting conferences at SPE (councilor meeting and other conferences), why are they not featuring conferences on front page.
- Motion was made to adjourn, motion accepted.

UPCOMING BOARD MEETINGS:
2006 SPRING: Charlotte, NC May 9, 2006
SUMMER: Detroit (Dearborn), MI Aug 7-8, 2006
FALL: Cincinnati, OH Sep 20, 2006

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<td>Get 3 to 5 proposals. Present summary with recommendations via email</td>
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<td>Present design attributes and functionality proposal</td>
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<td>Get quote for new webmaster to maintain current site until new one goes live</td>
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<td>form committee to discuss future RETEC Conference fee increases</td>
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Congratulations to Terry Golding for achieving Honored Service Member status within SPE

According to SPE Bylaws, "To be elected an Honored Service Member, a candidate shall have demonstrated long-term, outstanding service to, and support of, the Society and its objectives; shall be sponsored, in writing, by the Board of Directors of at least one Section or Division." Only 246 members have been elected to this prestigious status since it was established in 1992.

Terry was well deserving of this award. He has been on the Board of Directors of CAD since 1991. During this time he was most visible as our Awards Committee chairperson, volunteering for this position at his first BOD meeting back in 1991, and serving until he stepped down in May, 2006. Terry was solely responsible for revamping the CAD awards process which had not functioned properly prior to his leadership. Most importantly, Terry made sure there were Best Paper awards given for every ANTEC™ and RETECTM. And starting in 1991, he instituted an honorarium given along with a plaque to make the award more meaningful, while providing incentive to higher quality papers.

Terry also served through the chairs of the CAD, culminating in him becoming BOD Chairman for the 1998 - 1999 term. As chairman, Terry guided the division to a record attendance RETEC held in Cleveland in 1998. He was also instrumental in initiating payments to our newly created Endowment Fund to be used for scholarships in the future. Under his leadership, CAD also completed a very good technical session at ANTEC™ and won the Pride and Outstanding Division awards that year.

In 1997, Terry saw the need to participate in information flow on the world-wide web, and petitioned the BOD to establish a website committee. The purpose was to develop a strategy for a website, including content and fee structure, to allow our membership to access information quickly and easily. Terry was a founding member of that committee that created our successful website. Not only do we post minutes and contact information, but it is essential for promoting ANTEC™ and RETECTM programs. We have even progressed for using it as an on-line vehicle for RETECTM registrations and voting in Board elections.

Terry is also very active in various other committees including the Endowment Committee, Paper Review Committee, and the Strategic Planning Committee. And of course, his thoughts and insights on many topics during BOD meetings are invaluable.

As the pictures show, we presented the Honored Service Award to Terry over the telephone due to health reasons. It was great that the whole BOD could participate over the speaker phone and to give him a round of applause that he most certainly deserved. His wife Susan was in on the secret and was able to do the actual presentation of the certificate, pin and acrylic tower on the other end of the telephone. Susan tells us that Terry keeps the award on a table in the living room, and that everyone who visits him gets to hear the story of how it was presented and what it means to be an Honored Service Member.

Update: Just before this newsletter was to go on press, with great sadness to our Division, we learned that Terry had passed away. Our condolences to Susan and his family. What a loss we will feel to our plastics community and what a great role model he created for all of us.
ANALYSIS OF COLORANTS IN PLASTICS
WITH SPEED AND EXECUTION

Constantinos Nicolaou,
Sun Chemical Corporation Colors Technology, Cincinnati Ohio.

The analysis of colorants in plastics may be used for a variety of purposes such as reverse engineering (de-formulation), migration, decomposition, contamination, confirmation of composition, quality control or to identify causes of failure.

The analysis can be challenging and difficult since the amount of colorant in the final application is relatively small (less than 2%) and makes it difficult to identify by direct spectroscopic analysis. In addition, the solubility of the pigment and the polymer system in which it is dispersed have low solubility in most solvents. The colored plastic may also contain a variety of additives (plasticizers, inorganic fillers, antioxidants, fire retardants, antistatic agents and cross-linkers or co-polymers which are used to impart the desired properties. An experience analyst with good knowledge of polymer and pigment chemistry and versatility in analytical techniques is a prerequisite in most cases.

Spectroscopic techniques and/or chromatographic methods could be employed depending on the sample type and size, and number and amount of colorants present in the plastic. In this paper, the application of visible spectroscopy to the analysis of organic pigments in plastics will be illustrated.

Visible spectroscopy, also known as electronic spectroscopy, is a widely used technique for qualitative and quantitative analysis of colored compounds which absorb electromagnetic radiation the region of 400-750nm. For quantitative analysis the well known Beer’s -Lambet Law is used to relate the absorption of energy by the colorant.

\[ A = a_\lambda \times b \times c \]

where \( A \) is the measured absorbance, \( a_\lambda \) is a wavelength-dependent absorptivity coefficient of the colorant, \( b \) is the solution path length, and \( c \) is the colorant concentration.

This technique is suitable for accurate measurement of low migration levels of colorants in plastics for food contact as well as other applications (staining, contamination) as only a few mg of colorant are needed for this analysis. Concentrations can be measured at the ppm level; the technique is sensitive even down to ppb level. Even sparingly soluble pigments can be detected and quantified.

The following examples illustrate the applicability of visible spectroscopy for the quantitative and qualitative analysis of colorants for indirect food contact applications and for identification of unknowns.
Example 4. Identification of red pigment in LDPE masterbatch used in wood-plastic composite

The pigment was extracted by heating the colored polymer in a suitable solvent and the visible spectrum was recorded between 400-650nm. Spectral library search indicated a good match with PR 170. The 2nd derivative spectra also indicated a good match as shown below.

**INTERESTED IN JOINING THE CAD BOARD OF DIRECTORS?**

Sharyl Reid/A. Schulman Inc.

Are you an active member of the Society of Plastics Engineers? Are you willing to roll up your sleeves and serve? The Color and Appearance Division Board of Directors needs someone like you! A position on the CAD Board is a (5) year commitment with a requirement that you must be able to attend (4) mandatory meetings per year, two of which are tied into attending the annual SPE ANTEC™ and RETEC™ Conferences.

If you would like to join the CAD Board and are ready to volunteer your time and effort through many of our sub-committees and by helping to run our well known and very successful annual SPE CAD RETEC Conference, please submit your biography and share some words about why you would like to serve on the CAD Board to Sharyl Reid at Sharyl_Reid@us.aschulman.com no later than January 31, 2007. If you have any questions regarding the position and biography submissions you can contact Sharyl Reid by telephone at (864) 915-7253.

Thank you very much for your interest and I look forward to hearing from you!
WHY YOU SHOULD ATTEND THE LARGEST INDUSTRY EVENT IN THE U.S. THIS YEAR PLASTICS ENCOUNTER @ ANTEC?

Anyone involved with plastics will benefit from attending Plastics Encounter @ ANTEC™. As the single largest technical conference in the plastics industry worldwide, ANTEC™ offers forums and sessions for engineers, R&D scientists, technicians, technical sales people, technical support personnel, academicians, and managers in the plastics industry.

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WE GOT THE BLUES - HUMANITY'S OBSESSION WITH A CERTAIN COLOR

When we finally get around to writing the entire story of civilization, we'll devote a chapter to the color blue. Sure, children around the world choose red as their favorite color. But that's just a phase, like tearing the crust off bread. Make no mistake: Blue rules.

For thousands of years humans have found ingenious ways to turn things blue. In the ancient Mediterranean, biblical blue dye came from a hermaphroditic snail with a gland that generates a fluid that becomes blue when exposed to air and light—at least when the mollusk is feeling masculine. "They had to extract the glands when the snails were more male than female," explains Tony Travis, a historian and chemist at Jerusalem's Hebrew University.

Another blue dye came from a plant called woad. Its leaves had to be ground and fermented before the pigment emerged. Celts painted their bodies with it (think Mel Gibson in Braveheart). Medieval scribes illustrated manuscripts with it.

The blue in woad came from a molecule scientists refer to as indigo. But woad wasn't the best source of blue. Another plant—also known as indigo—produced the color more effectively. Indigo plantations sprawled across Asia, while woad lost luster.

Eventually synthetic dyes replaced natural ones. In 1897 the Germans manufactured the first synthetic indigo from coal-tar derivatives. Synthetic dyes triggered an explosion of blue fashions in the 20th century. Policemen switched from black uniforms to blue. The blue blazer replaced the black suit. And in the 1950s blue jeans took off, radiating youth and rebellion.

Next up: biotech blue. When Australian toxicologist Elizabeth Gillam was studying bacteria implanted with human DNA, her cultures unexpectedly turned blue. She suspected a mold contamination. But after conferring with Fred Guengerich, a colleague at Vanderbilt University, Gillam realized she'd stumbled onto something wonderful: The bacteria were producing the indigo molecule as part of their metabolism. "This is a good lesson for student scientists," says Gillam. "If something looks bizarre, don't discount it. It might be much more interesting than the result you expected."

Biotech indigo could be used to create blue plant tissues, including flower petals (imagine a perfectly blue rose). Scientists speculate that the process might even yield blue cotton, which would mean your jeans wouldn't need any dye. But then how would we ever get that nice faded look?

-Joel Achenbach

Excerpted from National Geographic Magazine June 2003
OPENING/WELCOME (SANDY DAVIS)
The meeting commenced at 8:45 am with a welcome from Sandy Davis. Bob Trinklein was welcomed back. Bob expressed his appreciation to be back and to have served on the board: he will drop off the board after ANTEC™.

SECRETARY'S REPORT (TRACY PHILLIPS)
A motion was made to accept the minutes as written. Minutes of the last meeting of 9/28/05 were approved.

TREASURER'S REPORT (BRUCE MULHOLLAND)
Bruce presented the treasurer's report. The beginning balance as of 8/31/2005 was $44,852.71. Income of $77,45 was from interest earned. Total expenses were $8,380.39 with no pending expenses. The ending balance was $36,549.78. A motion was made to accept the treasurer's report, second motion was made, and all in favor passed it.

Income tax was filed on time. Receivables and expenses increased vs prior years because of our method of handling proceeds changed (combined instead of split). Bruce attached an explanation to the file that went to the IRS.

COUNCILOR’S REPORT (AUSTIN REID)
There was no Councilor's meeting since the September CAD BOD meeting. There will be a meeting in Albuquerque on Jan 21st. The matrix meeting is on that Thursday.

ANTEC TECHNICAL PROGRAM COMMITTEE (BRUCE MULHOLLAND)
ANTEC™ 2006 (Charlotte, NC) - Sharyl Reid & Steve Goldstein
Eight (8) papers have been submitted. Seven (7) have been reviewed. A keynote speaker and a business meeting will be added to have at least 10 items. Austin also pointed out the possibility of adding a tutorial if we get 2 sessions in the Matrix meeting.

A full ANTEC™ Program will have around 750 papers this year. May 7-11 are the dates. Matrix meeting—there are problems with the electronic paper submission process. It is hard to get papers into the ANTEC™ system. The system was not working correctly if you are both a reviewer and a submitter. There were system troubles and about 15 TPC's didn't assign reviewers. As of last Thursday (Jan 5) over 150 papers didn't have reviewers assigned yet. Two main issues that have become apparent with these issues are
1. Deadlines need to be moved away from the holidays.
2. People want to submit larger abstracts (word count).

A motion for $2000 for ANTEC™ reception was seconded and passed. A motion to donate $2000 for student travel and $1000 to endowment fund to be distributed at ANTEC™ 2005 in Charlotte, NC was made, seconded, and passed.

ANTEC™ 2007 (Cincinnati, OH) - Scott Heitzman. Kathryn Brannon

ANTEC™ 2008 (Milwaukee, WI)-Ann Smeltzer & Marty Paisner
ANTEC™ 2009 (San Antonio, TX)
ANTEC™ 2010 (Orlando, FL)
ANTEC™ 2011 (Boston, MA) - Robert Butts

RETEC TECHNICAL PROGRAM COMMITTEE (SANDRA DAVIS)
RETEC 2005™ (New Orleans, LA) - Earl Balthazar - Sept. 25-27
Earl Balthazar thanked everyone for the help in pulling off the "miracle." Charlotte was a great venue even though a little squeezed at the Awards luncheon.

Preliminary numbers:
- 440 registrants
- 62 paid tabletops
- 32 fun walkers
- 5 preprint requests
- 5 extra CD's.

Approximate Revenue: $110,000.
- National-$31K
- CAD: $74K
- Red Cross: $18,500
- Pad folios were sent out.

25 papers: Best paper will be awarded to Ciba Specialty Chemicals. Overall comments have been good. The preprint issue will need to be addressed in the future. We are still missing proceeds from a couple of sponsorships. The New Orleans Fairmont may need to return $5000 in deposit. ISPE was instrumental in getting the conference moved (Lesley Kyle). Lesley said that the CAD group was one that could handle the difficult task of moving the conference at the last minute. Some will go to Endowment fund money is available for Terra Tech. A motion was made and passed to propose $5000 into Terra Foundation to be in memory of Chuck Swearingen.

RETEC™ 2006 (Cincinnati, OH) - Scott Heitzman/Bruce Mulholland - Sept. 17-19
The new CAD logo will be the RETEC logo this year. Tech Program—sessions will be split with a basic focus to get entry level people involved. Bob Charvat's seminar will be imbedded in the program.

Fee structure will be designed to motivate to send first timers. Registration: Bruce: Differentiate between non-member w and w/o SPE membership option. Declining SPE membership will be $25.00.

Social: Oktoberfest is this same weekend. WWW.oktober-fest-Zinzinnati.com. Precaution: Early hotel reservations are encouraged, especially if arriving for the weekend. TAPPI conference is also going on in Cincin at the same time.

Papers: Processing papers are needed. Sharyl suggested contacting P&G. Bob T. suggested a rotomolding paper since it is big in the area. Frank and Joe need about 5 more papers minimum. A paper on dyes would be good, too.

RETEC™ 2007 (San Antonio, TX) - Tim Reilly, Jim Figaniak - Oct. 1-2

continued on page 15
There will be a New Technology Forum. The Awards Luncheon will be on Tuesday. There will be a Breakfast on Monday. There may be a walking tour on Sunday. Slogan ideas were solicited: "Remember the Color, Walking the River of Color, ColorWalk, Color RoundUp, Riding Hard on Colors, Color Reflections, Plastic Expressions" were some of the ideas.

**STRATEGIC PLANNING - ARAM TERZIAN**

Aram reviewed the mission statement that was developed by the committee.

**Strategic Mission Statement:**

The Color and Appearance Division of SPE strives to educate, train, inform and to provide professional interaction opportunities to the global community involved in visual performance and aesthetics of plastics.

A motion that this statement be adopted was seconded and passed. The mission statement will be used by committee chairs to cascade down their long term objectives.

A strategic planning workshop will be held at each summer and Winter BOD meeting. Strategic Planning will report through Pride committee. The first action item to come out of the strategic planning meeting was the need to develop a catchy "tag line" to go with our logo. The tag line should support our image and objectives. The committee will run a contest to find an appropriate tag line, preferable by RETEC™ 2006. A motion for $2,000 to get the project started was seconded and passed.

**EDUCATION COMMITTEE (BOB CHARVAT AND JAMIE PRZYBYLSKI)**

Terra would like to have a table top at RETEC 2006. See www.terra.eu website. Course: PET 124 is an example of distance learning. There will be a RETEC™ paper on this topic. Total enrollment at Terra is around 4,500. A major obstacle is the perception that manufacturing jobs are going away.

**ELECTION OF NEXT SECRETARY (ALL)**

Tim Reilly was elected to serve as secretary for the 2006-2007 term.

**RETEC PAPER ARCHIVE (TRACY PHILLIPS)**

Tracy presented a comparison of Omnipress and X-CD quotes. Upon further questioning, it was determined that Omnipress would be the recommended choice. Sharon Ehr backed this finding. Upon further questioning, it was determined that Omnipress would be the recommended choice. Tracy presented a comparison of Omnipress and X-CD quotes.

**SITE AND THEME (SANDY DAVIS)**

Proposals for RETEC sites through 2012 were presented. A motion was made and seconded to open for discussion. A motion that 2009 RETEC™ be held in Savannah was passed. A motion that RETEC™ 2010 be in Nashville was passed. A motion that RETEC™ 2011 be in Chicago was passed. RETEC™ 2012 will be the 50th anniversary meeting. Las Vegas is a proposed site since it is a special occasion. Anteas showed record attendance, but attendance at papers was very low. This site is still up for debate. Chairs for these RETECs will be assigned at Summer Board meeting.

**NEWSLETTER COMMITTEE (BARB PARKER/SHARYL REID)**

Invoicing will be switched to end of year. Electronic newsletter vs hard copy was discussed. Most sponsors did not care if the newsletter was electronically distributed. We are not ready to make a decision yet. Perhaps we don't need newsletter sponsors if we go electronic. Sharyl passed around an example of a pared down hard copy. Gary Conrad reviewed the RETEC™ survey results: 53 for electronic via email 1 vs 28 for paper. The Newsletter and Web-Site Committees need to coordinate and perhaps be the same committee one day.

**CAD WEB-SITE (JOE CAMERON)**

Joe reviewed the proposal from e-XYN. Quote is Canadian dollars. The proposal is to have everything we currently have on the web page. Selected individuals would have the ability to post information. Selections would be sent to contributors for input. Payments would be handled by link, rather than direct.

Joe and Tracy to update RETEC™ 2006 info as soon as possible. We need to run an election in 4 weeks. We should be able to run with existing algorithm. Joe moved that the board approve going with e-XYN with allocation of $5000 to set up the website and $3000 to maintain it. Timing is 6 weeks to set up the new web site. e-XYN has at least 2 employees. New features will need to be prioritized and quoted separately, based on profilers input. Motion was seconded and passed with a majority vote.

**ENDOWMENT COMMITTEE (JOHNNY SUTHERS)**

The endowment fund has accumulated earnings of $227,864 (8.7% return). In the minutes of the last meeting we had $27,500. We are over the $250,000 mark. We will give 5 scholarships at $4000 each in 2006. We’ve identified 11 schools to send our documentation so they can submit applications. Scholarships will be paid direct to the university. The schools identified are: RIT, Ga Tech, Clemson, Auburn, Case Western, University of
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**PIGMENTS OF IMAGINATION**

I ran across this quiz in the August 2003 issue of *Discovery* magazine. I thought since we have just finished that wonderful six part article: A History of Pigment use in Western Art. The membership might like to "test" their pigment knowledge.

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**RAINBOW COALITION**

In the figure below left, six different colors appear in every row, column, and outlined region. Can you color the squares in the three other figures so there are six different colors in every row, column, and outlined region? Make it easier on yourself-use numbers instead of colors to work out the answers.

---

**SOLUTION TO PIGMENTS OF IMAGINATION**

1. *h. Vermilion*, which is red like cinnamon.
   2. *a. Cadmium yellow. Cadmium is also used in orange and red paints.*
   3. *d. Emerald green. In the 1860s, materials dyed using copper acetarsenite created toxic arsenic fumes when exposed to dampness.*
   5. *c. Cobalt blue. Cobalt is also used in green and purple paints.*
   6. *i. Mauve became hugely popular in Parisian couture. For the full story, see Mauve: How One Man Invented a Color That Changed the World, by Simon Garfield (W. W. Norton, 2000).*
   7. *g. It took 250,000 shellfish to make one ounce of Tyrian purple, making it the stuff of royalty. A pea plant in India produces a chemically similar purple used to make indigo.*
   8. *b. Charcoal black*
   9. *e. Zinc white*
Akron, Pittsburg State, Ferris State, U Mass Lowell, Penn State, and So. Miss.

Three of the 5 scholarships to be named after Jack Graff, Gary Beebe and Bob Charvat. Johnny Suthers made a motion that $20,000 for 2005 scholarships be given to the endowment fund for these scholarships. Motion was seconded and passed.

AWARDS COMMITTEE (TERRY GOLDING)
Steve G. will take over as committee chair after ANTEC™. Awards not given out will be mailed. We need nominees for honored service member and fellow of society. We should discuss at ANTEC™. We will need a 2006 outstanding achievement award nomination, too.

PUBLIC INTEREST COMMITTEE (GARY CONRAD)
Gary provided a summary of the RETEC™ 2006 survey responses: Comments were generally positive. New Technology format was received favorable. 25 of 94 joined just for RETEC™.

Best Cities: Preferred Format: Las Vegas. 15 MonTueWed = 38 Chicago 11 SunMonTue = 30

MEMBERSHIP COMMITTEE (ROGER REINICKER)
Roger passed around a suspended membership list for review and to identify people that need to be contacted again. Roger will contact Sandy about membership status for Pinnacle award. We are about 50 short in membership vs this time last year. Total CAD members count. Primary division status doesn’t matter.

There are about 250 attendees who attend RETEC™ no matter the location. Others attend sporadically. One issue to be resolved is the RETEC™ attendee whose membership expires between the time they Register and RETEC™.

DIVISION/SECTION TECHNICAL RESOURCE COMMITTEE (STEVE GOLDSSTEIN)
Per Steve. 4 slides have not been sent out yet: Carbon black slide, particle size pigments, attractive force of pigments, pigment comparison. Steve will edit again and send out. Steve needs feedback on pigment and use in polymer from non-Clariant suppliers. The goal is to have it all approved by the location. Others attend sporadically. One issue to be resolved is the RETEC™ attendee whose membership expires between the time they Register and RETEC™.

OLD BUSINESS (ALL)
Reviewed and updated existing action item list.

NEW BUSINESS (ALL)
Joe Cameron proposed a membership outreach committee. We need to better utilize the Newsletter and Website to better promote membership. Joe Cameron to prepare a proposal. To be discussed at ANTEC™ BOD.

NEW SPE CAD LOGO: Design 4 was chosen as logo.

Color of swoosh: RGB change was voted on and passed because it will look good on a black or white background.
CAD Scholarship Information

The Society of Plastics Engineers Color and Appearance Division has scholarships available for qualified individuals. Each year $20,000.00 worth of scholarships are awarded.

Three of the five scholarships have been dedicated to three remarkable people in our industry.

The endowment fund is the brainchild of one of SPECAD's past presidents, Gary Beebe. Gary created and spent many of his years on the board shepherding this project. His commitment and perseverance from creating the funding mechanism, growth and maintenance plans and finally working on the distribution of these scholarships was remarkable. Gary truly felt that education was the only way we could give back to those coming along behind us in the industry. Although Gary is happily "retired" in sunny Marco Island Florida he still maintains an interest in the scholarship process.

Bob Charvat has been a SPECAD member for over 50 years and a board member for many of those 50 years. In his past lived at various companies he was a significant contributor to the education of colorists in our industry. Upon his retirement he began an association with Terra Technical College in Fremont Ohio. Bob was instrumental in the creation of this program and has remained a steadfast champion of the program with both SPECAD and Terra Technical College administration. Throughout the past 18 years he has been active in the creation of and ongoing curriculum of the Coloring of Plastics program at Terra Tech.

Five Annual Scholarships

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<thead>
<tr>
<th>Scholarship</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Jack Graff Memorial Scholarship</td>
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<td>Gary Beebe Scholarship</td>
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<td>Bob Charvat Scholarship</td>
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Upcoming Antecs

2007 ANTEC Cincinnati
Venue: Cincinnati Convention Center
Dates: May 6-10, 2007
CAD Chair: Scott Heitzman

2008 ANTEC Milwaukee
Venue: Midwest Express Center - Milwaukee
Dates: May 4-8, 2008
CAD Chair: TBD

Upcoming RETECs

2007 RETEC San Antonio
Venue: Hyatt Regency
Dates: October 1-2, 2007
Chair: Tim Reilly

2008 RETEC Detroit
Venue: Hyatt Dearborn
Dates: September 21-23, 2007
Chair: Bruce Mulholland

2009 RETEC Savannah, GA
Venue: Hyatt Regency Savannah
Dates: October 18th - 20th - 2009
Chair: Aram Terzian

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