



CENTRAL ARKANSAS SECTION



Program:
The Inside Story of Color Photography

James Edwards
Eastman Kodak Company

7:00 PM
Friday, October 20, 2000

Nucor Auditorium
Lyon Building
Lyon College

Dinner with the speaker: (if interested)
5:30 PM at Colton's Steakhouse

ABOUT THE PROGRAM:

Color photography is a process for the capture on film of an accurate representation of the light levels and colors of a scene. Most modern color photography is based on the sensitivity of silver halide to light, together with chemistry that couples the chemical reduction of silver halide to the formation of organic dyes. The properties of silver halide that make it uniquely useful as a photographic recording medium and the chemistry that results in dye formation will be explained. To understand how a color picture can be formed, the additive (red, green, and blue) and the subtractive (cyan, magenta, and yellow) color primaries will be discussed and their relationships demonstrated. Modern color films use subtractive dyes almost exclusively. By coating appropriate silver halide grains and dye-forming chemistry in superimposed thin layers, images in three colors are formed in perfect registration. Clever manipulation of processing steps can then produce color negatives, color prints, and color slides from similar materials. Finally, discussion of some of the chemistry that allows the optimization of color reproduction and image sharpness will give a flavor for the sophistication of modern photographic science, which can provide high quality color reproduction in layers only 10 micrometers thick.

HOW TO GET TO THE MEETING: Take Exit #55 from US 67 North and travel north on US 167 to Batesville. Approximately 1 mile after crossing the White River bridge, take a right onto College Street, next to Kroger. Continue to the stop sign, and the campus will be directly ahead. Parking is most convenient in front of the chapel.

HOW TO GET TO DINNER: After following US 167 to Batesville, travel approximately 0.5 mile after crossing the White River bridge and take a right onto Harrison Street (Hwy 69), at the Subway and Phillips 66 station. Proceed about 3 miles and Colton's will be on the right, just past WalMart.

ABOUT THE SPEAKER:

Mr. James L. Edwards graduated from Michigan Technological University in 1969 with a B.S. degree in chemistry. After graduating, he joined the Kodak Research Laboratories as an analytical chemist in the Methods Research and Technical Services Division, where he specialized in developing chromatographic methods of analysis for new chemicals and photographic film systems. In 1981, he transferred to the Color Photography Division of the Kodak Research Laboratories, where he joined a team responsible for developing improved color photographic films and papers. In 1983 he was appointed a research associate of the Research Laboratories and became the technical team leader for a new color photographic paper program. His technical interests include image dye stability, color reproduction, and light scatter in color photographic systems.

A ballot for section officers for 2001 has yet to be prepared. Nominate a friend by contacting Derek McDowell at dmcdowell@lyon.edu

SUMMER RESEARCH OPPORTUNITY:

Dr. Ed Wilson, Professor of Chemistry at Harding University, has an ACS-PRF Grant that allows the awarding of a \$6500 summer fellowship to a tenured or tenure track professor at a chemistry department that does not offer a doctoral program. The research involved is in gaseous atmospheric chemical kinetics utilizing GC/MS. The project will involve developing a LabVIEW program to automate the measurement process and allow the results to be displayed on the World Wide Web. It will also involve developing a LabVIEW program to operate the experiment from another location through the web. Expertise in this area is not essential to be chosen. The application for this fellowship must be completed before December 1, 2000. If you or someone you know is interested, please have them contact Ed Wilson at (501) 279 4513 or wilson@harding.edu. Further information is available at www.acs.org/prf/grantees.html.

NATIONAL CHEMISTRY WEEK:

The section is planning a 50th Anniversary Gala in celebration of National Chemistry Week. Many local activities are also being planned. This year's theme is "Kitchen Chemistry" and it promises to present many opportunities for outreach to students and adults alike. This year's unifying event will be a community service project, *Chemists Reacting to Hunger*, a food collection drive. For ideas about how to participate in this year's celebration, visit the NCW website at www.acs.org/ncw. The section encourages everyone to get involved in any way possible. If so, please report your NCW activities to Jeffery Moran (MoranJefferyH2@exchange.UAMS.edu), so that we can distribute recognition as deserved.

MEETING SCHEDULE:

Final section meeting for 2000:

November 2: IMAX/Aerospace Museum in Little Rock: 50th Anniversary Gala

IF YOU HAVE FRIENDS WHO CONTINUE TO RECEIVE
MEETING ANNOUNCEMENTS BY MAIL HAVE THEM
SEND THEIR EMAIL ADDRESS TO
JERRYM@MAIL.UCA.EDU
AND RECEIVE FUTURE MEETING ANNOUNCEMENTS
ELECTONICALLY!!!

FROM THE CHAIR: I am assuming that I'm just like the rest of guys when I say that, here lately, I've been so busy I can't even think straight. With that said, I'm afraid I don't have many deep thoughts to share this month. Instead, I'll use my venue here to share information that I have received from the national office. Here goes...

The Office of Awards and Recognition is accepting nominations for the ACS Regional Award in High School Chemistry Teaching. Nominations are due by November 15, 2000. Being that we annually recognize high school teachers at our spring awards banquet, I encourage everyone to nominate one of them for the regional award. For more information on this award, please e-mail Marvin Jones at m_jones@acs.org or at 1-800-227-5558 ext. 4408.

Each year very few women receive national awards administered by ACS. Of the 55 awards listed in the official ACS Awards booklet, nearly two thirds have never been awarded to a woman. Only three women received national awards in 2000, and there are several awards for which no woman was nominated for 2001. Thus, the Women Chemists Committee is in search of women to nominate for ACS administered awards. They are requesting the assistance of the local sections to meet their goals for the recognition of women that obtained outstanding accomplishments in her field. Therefore, they are asking that we, the local section members, take the time to find and nominate qualified women for awards for 2002. For complete information regarding the awards administered by ACS, visit the ACS website at www.acs.org/awards. For more information regarding the WCC's initiative, contact Dr. Deborah McCarthy at 219-284-4660 or at dmccarth@saintmarys.edu.

The ACS recently conducted the first public opinion poll in 14 years. It is remarkable that the ACS, an organization of scientists, has gone so long without current, reliable data on how the public views member of our profession. The findings may surprise some of you: for the most part, the news is good. The public's responses to chemists, chemicals, and chemistry are all positive. (Chemical companies did get a lower favorability score, but still a multitude of people cited them favorably.) The data contain other pleasant surprises as well — for example, members have been heard to say the public doesn't credit chemists with developing new pharmaceuticals when, in fact, the survey shows it does. In addition, the survey identifies the positive traits the public associates most strongly with chemists: visionary, innovative, and results-oriented. Again, this is good news. However, as you might suspect, the public also reports that it doesn't feel well informed about chemistry. So, there's work for us to do — as well as a receptive audience for it. With NCW just around the corner, we should keep this information in mind. Our efforts do make a difference in our communities.

After I promised no thoughts, I'm going to close with one. Again, being just like the rest of you, I've received several e-mails regarding the upcoming ACS elections. I'm not one to campaign for anyone, but I do want to echo one piece of those notes. Please vote! Regardless of whom you vote for, please take the time to complete the ballot. Again, if you're like me, you have no idea who these people you are voting for are. No one wants to be an uninformed voter, so take the time to read each candidate's profile and statement. You can learn a lot from this information to make yourself an informed voter! We all know that the ACS is a large organization, and there's a tendency for us on the local level to have trouble seeing how we really matter on the national level. Well, my thoughts are that voting in these national elections provides a significant way for us to "matter" and maybe make a difference in this society that we chose to be a part of. So, think about this before you pitch that green envelope in the trash!

NOTES FROM THE SEPTEMBER MEETING:

Approximately 80-90 people (many of them OBU students) attended the ACS meeting on September 19.

Chair Derek McDowell discussed an ACS special project called "Technology Milestones: 125 years of innovative breakthroughs in chemistry and chemical engineering that have transformed our world" Members are invited to participate by nominating the technological breakthrough(s) considered most noteworthy. More information can be found and nominations can be submitted on-line through the ACS website at <http://www.acs.org/milestones>.

Members were made aware of the opportunity to act as a Government Relations Representative for our local section. Our section currently has no such individual playing this role. This representative of the section would facilitate interaction between our local section and the legislators who represent us, providing a vital opportunity to educate lawmakers and impact policies that are important to chemists.

It was also announced that our section's membership efforts could earn extra dollars for our section. The section could receive a \$15 commission for each new member that joins the society through our efforts. This is all a part of the national offices' efforts to help our section grow and increase member participation. Member-Get-A-Member Kits were distributed to those interested in helping, and are still available upon request.

Danny Carter, of RINECO, the section's Career Program Coordinator, spoke briefly about his availability to the section, especially to students, to provide career oriented assistance from the national office. He distributed several pieces of literature regarding career resources, as well as current trends in chemical employment.

MINUTES OF THE CENTRAL ARKANSAS SECTION EXECUTIVE COMMITTEE MEETING HELD ON OCTOBER 9, 2000.

Section officers met at the Regas Grill in Little Rock at 6:30 PM on Monday, October 9, 2000. Present were Derek McDowell, Marty Perry, Jeffrey Moran, Ed Wilson, Marian Douglas, Ed Wilson and Danny Carter. The purpose of the meeting was to make plans for the 50th anniversary event to be held at the IMAX Theatre in Little Rock on Thursday, November 2. The evening will start at 5:30 PM with food and drink with the program beginning at 6:30 PM. National ACS President-Elect Attila Pavlath will be in attendance to recognize past chairs of the section. Others who have made significant contributions to chemistry in central Arkansas will also be recognized. An IMAX theatre presentation will be available beginning at 8:00 PM. The event is being subsidized by grants from the national ACS and from Arkansas Eastman.