



CENTRAL ARKANSAS SECTION



**Program:**

**Sex and the Single Gypsy Moth**

Dr. E. Alan Cameron  
Penn State University

7:30 PM

Tuesday, September 19, 1000

McBeth Recital Hall  
Mabee Fine Arts Center  
Ouachita Baptist University

**Dinner with the speaker:** (if interested)

6:00 PM at the Fish Net

**ABOUT THE PROGRAM:**

The gypsy moth, *Lymantria dispar*, an introduced pest of northeastern U.S. hardwood forests, continues to expand its range to the south and west; populations are established in some of the western states. Many varied approaches to pest management are being investigated. Gypsy moth male adults are excited by and respond to a female-produced pheromone. Chemical communication between the sexes has been recognized since the late 1800s; modern analytical techniques and biological assays of synthesized materials during the 1970s suggest that the + enantiomer of disparlure, (7R,8S)-epoxy-2-methyloctadecane, is the natural sex attractant produced by female moths. Numerous intensive and extensive tests, both in the laboratory and the field, have been conducted during the last several decades to aid understanding of the behavior of adult moths, and especially the role played by chemical communication between the sexes. Attempts have been made to exploit use of the synthetic pheromone for survey and detection, monitoring, manipulation, and control of populations. Except for survey and detection (where pheromone-baited traps provide the most sensitive system available), operational use of the pheromone is not effective. Many of the reasons for failure to meet control and management goals are explained through our understanding of moth behavior.

**HOW TO GET TO THE MEETING:** Take Exit 78 off of I-30. Proceed South on Highway 7 (towards Arkadelphia) approximately 5 miles. Turn left at the intersection of Pine and Highway 7 (Traffic light at intersection and Exxon on your right). Stay on Pine until you reach stop sign at 6th street. Turn left onto 6th, go one block, and make a right onto Cherry. Make left on 5th street and park in lot behind the Jones Science Center. Look for signs to direct you to McBeth Recital Hall. Note the 7:30 PM meeting time.

**HOW TO GET TO DINNER:** Take Exit 78 off of I-30. Proceed North on Highway 7 (towards Degray Lake) approximately 2 miles. Restaurant will be on your right.

#### ABOUT THE SPEAKER:

Alan Cameron is a board-certified entomologist who specializes in plant-related entomology. He is a professor in the Department of Entomology at The Pennsylvania State University, where he teaches courses in forest entomology, insect ecology, forest protection, and forest pest management. His research interests include forest pest management; biology and management of pear thrips in sugar maple forests; parasitoids, invertebrate predation, and pheromones of the gypsy moth; chemical and biological insecticides for the control of insects pests; spray technology; the environmental impact of pesticides; and differential diagnoses of insect, disease, and air pollution damage to trees. He holds a B.S.A. in entomology from Ontario Agricultural College (Canada) and an M.S. and a Ph.D. in forest entomology from the University of California-Berkeley.

#### 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](mailto:wilson@harding.edu). Further information is available at [www.acs.org/prf/grantees.html](http://www.acs.org/prf/grantees.html).

#### NATIONAL CHEMISTRY WEEK:

The section is planning a 50<sup>th</sup> Anniversary Gala in celebration of National Chemistry Week. Many local activities are also being planned. Please report NCW activities to Warfield Teague (Teague@mercury.hendrix.edu).

#### MEETING SCHEDULE:

The remaining programs are planned for 2000:

October 20: Lyon College, "The Inside Story of Color Photography"

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

FROM THE CHAIR: Hello again! I hope that everyone had either a restful or a productive summer, depending on what your original intentions were. I sit here on Labor Day and write to you with one less tooth in my head! That's right, last Friday, I had oral surgery to have a wisdom tooth extracted. I know, I know, you're saying "Is that guy really that young?!?" No. Typically your wisdom teeth "decide" to give you trouble when you're 21-24 years old. Mine were lazy and decided to start moving in ten years late. I mention this not for pity, but because during the last two weeks, I have been very aware of the value of chemistry in my life, namely DRUGS! I don't know if you guys have ever dealt with tooth pain, but I have never had pain as severe as with this wisdom tooth. I sometimes take the availability of pharmaceuticals for granted because I'm sort of a lucky one who rarely feels ill. However, here recently, I gained a new appreciation for the phrase "better living through chemistry." After I spent a couple days in agony, I visited my dentist, who prescribed me some pain relief. This brings me to another story. When I picked up my pain pills, namely Percocet, the pharmacist warned me that it was strong stuff and that it might knock me out. I was surprised to find that it did nothing at all to make me drowsy, plus I had to double up on the original prescription in order for it to alleviate my pain. Once again, I gained more appreciation for chemistry and the talented individuals who design drugs that are useful for the majority, given that we all are subtly different in some ways. Well, enough about me... I have some exciting news to share.

Many may already know about my first item through word of mouth or the electronic communications this summer. Our local section was nominated for a Phoenix Award in the categories Most Creative Activity and Most Unique Student Affiliate Event for the "Dress as your Favorite Element" activities during 1999 NCW. The award was presented during the fall 2000 ACS national meeting in Washington DC. We were unable to find a member to be present at the award ceremony to accept the award, and I have yet to hear from the national office, so how our section fared is still undetermined. I'll be sure to spread any word I hear. What I hope this does is prime the members of our section to continue our many NCW activities, while making them bigger and better.

The other item may be old news by now. I get the feeling that most of you know that the Central Arkansas Local Section is celebrating its 50<sup>th</sup> anniversary during 2000. The executive committee met over the summer and began planning what we are currently calling the "50<sup>th</sup> Anniversary Event." The date has been set for Thursday evening, November 2, 2000. It will be a perfect kick-off for NCW, which is the following week. We have made arrangements to hold the event in the Aerospace Education Center/IMAX Theater in Little Rock. If the currently planning holds, here is what we have in store. Our keynote speaker will be the year 2000 ACS President-elect, Attila Pavlath, who plans to recognize all of the past chairs of the section. We are also asking the Student Affiliates of the ACS chapters to prepare historical displays pertaining to the history of chemistry in the state of Arkansas. In addition to these activities, the local section also wishes to use this event to honor individuals that we are calling **Leaders in Arkansas Chemistry**. This designation is being broadly defined to include people from academia, industry, or government, who have played a crucial role in the advancement of chemistry in the state of Arkansas over the past 50 years. We are soliciting nominations from several organizations around the state, but I would like to use this forum to urge all members to nominate any individual worthy of such recognition. Just send a name, along with pertinent information, to any of the executive officers. (Contact information is available on the section's website.)

Thanks to the efforts of chair-elect, Jeff Moran, the section has received a \$1000 grant from the Office of Local Section Activities to cover some of the expense of our anniversary event. The section has also received a gift of \$250 from Arkansas Eastman to assist with the event, and the local section itself has budgeted funds for the event. Therefore, we are going to do our best to plan "one heck of a good time!"

I'll leave you with a thought. It's that time of year again when the executive committee starts putting together a slate of candidates to run for the executive committee offices. So I want to encourage everyone to think about the possibility of volunteering your time to serve the section in such a capacity. If you have some interest, please contact any of the current officers so we can provide you with more information.

MINUTES OF THE CENTRAL ARKANSAS SECTION EXECUTIVE COMMITTEE RETREAT HELD ON JULY 15, 200

The preliminary speaker circuit schedule was provided for the committee's information. It is planned to accept all of the speakers on the circuit. The plan is to have at least one talk this upcoming year at a non-academic institution, most likely NCTR or the State Crime Lab. It was also suggested that academic sites be used on an every other year to distribute the location around the state.

To date we have received only one Secondary Teacher Travel Grant application. The Section has budgeted for 6 awards at \$600 each. It was agreed that the award would be limited to \$600 per teacher even if fewer than 6 apply.

The committee discussed the feedback provided by the national office regarding the Section's 1999 annual report. The topics included (1) increasing the number of Executive Committee meetings, (2) increasing the number of active committees, (3) varying the location of section meetings, and (4) developing activities involving families. Responses to this feedback include (1) the Summer Retreat and a planned fall Executive Committee meeting on October 9, 2000, (2) forming a Career Assistance Committee made up of Danny Carter, the section's Career Program Coordinator, to represent the industrial sector, Tony Jude of UALR to represent the academic sector, and Cindy Moran of the State Crime Lab to represent the government sector. It is hoped that these individuals will be available to students gather career advice and assistance. There exists a need for a Public Relations Committee to help promote the section state-wide. It was suggested that Cesar and Lilia Compadre be approached to determine if they were interested in playing heading such a committee. It is planned to construct a Hospitality Committee, which already exists, but has not been labeled as such. This committee will be made up of an individual from each of the institutions hosting section meetings. These individuals will be responsible for welcoming everyone upon their arrival to the meeting. This is current practice, and we are merely formalizing a new committee. (3) The plan mentioned above to locate meetings at non-academic institutions will respond to the feedback regarding varying the location of section meetings. (4) It is hoped that various activities during NCW will help provide activities for families.

The early stages of planning the section's 50-year anniversary event were conducted. It was decided to hold the event at the IMAX/Aerospace Museum in Little Rock. The estimated cost will be \$2000. The program will consist of catered finger foods, followed by the awards and recognition, then possibly an IMAX film to cap off the event for those interested. With the desire to have historical displays to view during the pre-award mingling, it was suggested that the Student Affiliate groups each develop a poster to display the history of chemistry at their campus or the general history of chemistry in Arkansas, to be judged for a \$100 cash prize for their SA group. In terms of honorees, Attila Pavlath, ACS President, intends to be present to recognize past chairs of the section. The program will also recognize the SAACS Presidents and well as high school teachers the section has honored in the past. The section also plans to solicit nominees to be recognized as Leaders in Arkansas Chemistry from each chemistry-related institution in the state.

National Chemistry Week was briefly discussed. It was suggested that, in order to better coordinate the activities around the local section, NCW site-coordinators be identified at all of the participating sites within the section. This will provide the section's NCW Coordinator, currently Warfield Teague, with contacts when it comes time to offer our support of activities within the local section. A working list was generated and will be forwarded to Warfield.

It was also agreed that Outstanding High School Teacher Award, given annually by the section, will include a subscription to the Journal of Chemical Education, at an expense of \$40, in addition to the cash prize. Also discussed was a need to consistently give an Outstanding Local Section Member Award each year.

An Executive Committee meeting was tentatively scheduled for Oct. 9<sup>th</sup>, in which final plans can be made for the November 50<sup>th</sup> Anniversary Event.