



AMERICAN CHEMICAL SOCIETY KENTUCKY LAKE SECTION

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KLS-ACS Web Page

<http://kentuckylake.sites.acs.org/>

February 2016 Kentucky Lake Section Meeting @ Paris Landing State Park Lodge

400 Lodge Rd Buchanan, TN 38222

Thursday, February 18, 2016

Social @ 5:30, Dinner @ 6:00 pm, Presentation @ 7:00 pm

All-You-Can-Eat Buffet featuring catfish and hushpuppies

The price is \$10 (Students \$5)

Program: Probing the Mode of Action of Phytotoxins in Plants

Dr. Stephen Duke

Research Leader of the Natural Products Utilization Research Unit

Kids Science Center Available during the talk

Comments from the Chair

Join us at Paris Landing State Park on February 18th for a buffet feast and some time to catch up with friends. The speaker will be Stephen Duke, who has recently served as chair for the Agrochemical Division of the ACS. His talk will focus on studying the mode of action of phytotoxins. A Science Center will be available for kids, so bring your family and enjoy a chemistry-filled evening. Please support your local section with your attendance and intentional involvement.

~ Dr. Abigail Shelton, Chair

What's Happening in KLS

- The kids' Science Centers will continue at monthly meetings. We encourage you to bring your children to each meeting, where everyone can enjoy some chemistry.

Abstract:

The use of “omics” methods to probe the mode of action of phytotoxins, including herbicides, will be discussed. These methods include transcriptomics, proteomics, metabolomics, and physiomics. These powerful methods can give detailed accounts of biochemical and chemical changes in plants treated with a toxicant, but working your way back to the molecular target site of a chemical is difficult.

Speaker Biography:

Dr. Duke received his B.S. degree in Biology from Henderson College in 1966, his M.S. in Botany from the University of Arkansas in 1968, and his Ph.D. in Botany from Duke University in 1975. Dr. Duke has worked at the U.S. Department of Agriculture in various capacities since 1975. He is currently a Research Leader of the Natural Products Utilization Research Unit in Oxford, Mississippi. Further, Dr. Duke has recently served as chair of the Agrochemical Division of ACS, and is also a Fellow of that Division.