



Soil and Water Science Department Seminar

Speaker: **Ky Gress**
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Title: **Residential Exposures to Arsenic and Hexavalent Chromium from CCA-Wood**

Date: Friday, March 20th

Time: 3:15 pm

Location: McCarty Hall A Room G186



Our homes and workplaces are surrounded by structures, including decks, fences and staircases, made from exterior grade lumber treated with the pesticide chromated copper arsenate (CCA). CCA-wood has been shown to leach significant quantities of arsenic, posing a potential health risk to people and animals having contact with the wood and arsenic-contaminated soil. This series of studies evaluated children's exposure to arsenic from 2-story CCA-wood staircases located in the front yards of their apartment complexes in Gainesville, as well as environmental health impacts from using bleach to clean CCA-wood decks. The final study evaluated zoo animals' exposure to arsenic from living in enclosures constructed of CCA-wood and included biomonitoring arsenic levels in tissues from crocodilians, birds, porcupines and primates. Overall, the results of these studies illustrate the numerous pathways of exposure to arsenic from CCA-wood, with a focus on potential health risks in vulnerable sub-groups.

For our off-campus students, off-campus faculty, and on-campus students who cannot physically attend, all seminars can be viewed at: <http://mbreeze.ifas.ufl.edu/seminars>. In addition, all seminars are archived for viewing at <http://soils.ifas.ufl.edu/academics/seminars.shtml>.