



# Minnesota Chromatography Forum

c/o CCS Events, 6611 Countryside Drive, Eden Prairie, Minnesota, 55346 ccs@mn.rr.com

[www.minnchrom.org](http://www.minnchrom.org)

## MCF Quarterly Meeting

Wednesday, October 29<sup>th</sup>

Sheraton Four Points Hotel – St. Paul Midway

I-94 and Hamline Ave.

Social Hour – 6:30 PM

Speaker - 7:00 PM

Come and hear **Dr. Deborah Swackhamer** from the Water Resources Center at the University of Minnesota.

### "Estrogen Mimics and Sex Education for Fishes"

Concerns about the potential of endocrine disruption in wildlife or human populations have been raised in the popular press, debated in the scientific literature, and have focused resources on research on understanding the problem and assessing its impact. The evidence that fuels these concerns is considerable, but is missing the linkage between chemical exposure and effect. Chemicals have been shown to be estrogenic in *in vitro* assays or in animal models, but whether these chemicals result in adverse effects at ambient concentrations in whole organisms at individual or population levels is unclear. There is a large body of observational data documenting endocrine disruption and reproductive failure in wild animal populations that correlates with certain chemical exposures. This presentation will provide an overview of the issue and concern, and present current research in Dr. Swackhamer's lab on the occurrence, exposure, and impacts of environmental estrogens on fish.

*Minnesota Chromatography Forum*

*Spring Symposium 2004*

*May 11-13*

*Earle Brown Heritage Center*

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