

**Intervention du Pr Michael Gonsior**

Professeur au Chesapeake Biological Laboratory, Solomons,  
Université du Maryland, USA

**Le 15 décembre 2014 à 14 h**

à AgroSup Dijon, Bâtiment Epicure (ex-ensbana) – Amphithéâtre Keilling

(Conférence organisée par l'UMR 02.102 Procédés Alimentaires et Microbiologiques  
AgroSup Dijon / Université de Bourgogne)

Titres de la conférence :

**The color of dissolved organic matter – What we know and don't know about the  
molecular composition of CDOM**

Coordonnées :

Pr Michael Gonsior

Lab Affiliation:

Chesapeake Biological Laboratory

Mailing Address:

P.O. Box 38  
Solomons, MD 20688

Email:

[gonsior@umces.edu](mailto:gonsior@umces.edu)

Office Phone:

410-326-7245

## **The color of dissolved organic matter – What we know and don't know about the molecular composition of CDOM**

The fraction of natural dissolved organic matter (DOM) that absorbs light in the ultraviolet (UV) and visible light spectrum is referred to as chromophoric DOM (CDOM) and is believed to be associated with the biorefractory component of DOM in natural systems, but it is also prone to photochemical degradation. This light-absorbing material has far reaching implications, including protection of biota from harmful UV radiation, precursors of the formation of disinfection by-products in drinking water production, and even in aging and premature oxidation of wines. The molecular composition of this material remains largely unknown and this seminar will focus on the advances made in pinpointing possible classes of CDOM at the molecular level and the most up to date knowledge of the CDOM molecular composition.

Michael GONSIOR

Professeur au Chesapeake Biological Laboratory, Solomons, Université du Maryland, USA

Domaine d'expertise : Molecular diversity of complex organic matrices in aquatic environments analyzed by modern analytical technology; Photochemistry and photodegradation