

FEBRUARY 4TH, 2008
SPARKS, NEVADA

CYANOBACTERIA AND WATER QUALITY

Coordinated by: Purdue University and USDA-CSREES National Water Conference

SYMPOSIUM ABSTRACT

The biological health of our nation's water supply remains of upmost importance to both water managers and the public. Cyanobacteria, most often referred as to blue-green algae are one of the most diverse groups of naturally occurring gram-negative photosynthetic prokaryotes. They occur as a part of the natural flora of lakes, reservoirs and ponds. Under normal conditions they pose only a small threat to humans. However, data supports a general conclusion that the frequency of cyanobacterial blooms has increased over the last few years. Cyanobacterial blooms tend to occur in warm water and are stimulated by nutrient enrichments which often occur as a consequence of human activities. The blooms may result in the cyanobacteria producing cyanotoxins which are extremely dangerous substances that may cause death in aquatic organisms, humans and other animals. Some of the toxins produced by cyanobacteria includes microcystins, cylindrospermopsin and anatoxin-a. This symposium will provide a comprehensive evaluation of the role water managers play in controlling cyanobacteria. The panel will cover the ecology and the factors that may lead to a Cyanobacteria bloom. Careful planning and management practices will help to limit the repetition of blooms and the goal of this series of talks is to provide information to allow this to occur.

TOPICS

What Are Cyanobacteria?

What are Cyanobacterial toxins?

Cyanobacterial Harmful Algal Blooms

Importance of cyanobacteria toxins to recreational and drinking water quality

Cyanobacteria Detection Methods

Human Health Effects

SPEAKERS

Dr. Ronald Turco
EPI-Net
Purdue University

Dr. Ken Hudnell
U.S. Environmental Protection Agency
Chapel Hill, NC

Dr. Jennifer Graham
U.S. Geological Survey
Lawrence, KS

EPI-Net Symposium

CYANOBACTERIA AND WATER QUALITY

REGISTRATION

This symposium will be part of the USDA-CREES 2008 National Water Conference, please visit this webpage to register:
<http://www.soil.ncsu.edu/swetc/waterconf/2008/register.htm>

MEETING

The Cyanobacteria symposium will run from 9:00 a.m. to noon.
February 4, 2008

CO-PRESENTED WITH:

The USDA-CSREES National Water Conference 2008

February 3 - 7, 2008

*John Acuaga's Nugget Hotel Resort
Sparks, Nevada*

<http://www.soil.ncsu.edu/swetc/waterconf/2008/home08.htm>

AUDIENCE

This symposium is designed for professionals in the area of water protection:

- ❖ Consultants
- ❖ Government Officials
- ❖ Water Scientist
- ❖ Ecologist
- ❖ Environmental Scientists
- ❖ Others in related areas

CONTACT INFORMATION

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