**OBJECTIVE**
Through presentations and discussions, gain an in depth understanding of the human health effects associated with exposure to cyanobacteria and their toxins in drinking water and recreational waters.

**SCHEDULE  DAY 1 – MAY 22ND**

<table>
<thead>
<tr>
<th>TIME</th>
<th>PRESENTATION</th>
<th>SPEAKER</th>
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</table>
| 9:00 - 9:10 | Welcome                                                                      | Elizabeth Doyle, PhD  
Health and Ecological Criteria Division, Office of Science and Technology, US EPA |
| 9:10 - 9:15 | Workshop Objectives and Webinar Logistics                                   | Lesley Vazquez-Coriano, DrPH  
Health and Ecological Criteria Division, Office of Science and Technology, US EPA |
| 9:15 - 10:00 | Priority setting for hazard assessment in recreational waters affected by freshwater cyanobacteria: Death or Itching? | Ian Stewart, PhD, Adjunct Research Fellow  
School of Public Health, Griffith University, Southport, Queensland, Australia |
| 10:00-10:45 | Human health impacts associated with cyanobacteria HABs: summary of a literature review prepared for the International Joint Commission (IJC), Great Lakes Regional Office | Wayne W. Carmichael, PhD  
Professor Emeritus, Department of Biological Sciences, Wright State University |
| 10:45-11:00 | BREAK                                                                      |                                                                           |
| 11:00-11:40 | Human Health Research: Microcystins-clinico-pathological evidence of sublethal effects | Elizabeth Hilborn, DVM, MPH  
Environmental Public Health Division  
National Environmental Effects Research Laboratory, Office of Research and Development, US EPA |
| 11:40–12:20 | Human intoxication event by cyanotoxins during renal dialysis treatment in Caruaru-Brazil | Sandra M. F. O. Azevedo, PhD  
Professor, Laboratório de Ecofisiologia e Toxicologia de Cianobactérias, Universidade Federal do Rio de Janeiro |
| 12:20 - 1:00 | LUNCH                                                                      |                                                                           |
| 1:00 - 1:45 | Epidemiology and Cyanobacteria                                              | Nicholas Osborne, PhD  
Senior Research Fellow, European Centre for Environment and Human Health  
University of Exeter Medical School |
| 1:45 - 2:30 | State-Based Harmful Algal Blooms Surveillance: The Wisconsin Perspective    | Mark Werner, PhD  
Division of Public Health, Department of Health and Family Services, Bureau of Environmental Health, State of Wisconsin |
| 2:30 - 3:10 | Cyanobacteria Blue-Green Algae Harmful Algal Blooms (HABs) in Ohio waters in 2010 | Greg Stein and Laurie Billing  
Community Involvement/Health Education Health Assessment Section, Bureau of Environmental Health, OH Department of Health |
| 3:10 - 4:00 | Discussion                                                                 | Elizabeth Hilborn, DVM, MPH  
Office of Research and Development, US EPA |
| 4:00pm    | ADJOURN                                                                    |                                                                           |
### SCHEDULE DAY 2 – MAY 23ND

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<tr>
<td>9:00 - 9:45</td>
<td>Cylindrospermopsin: genotoxin and potential carcinogen</td>
<td>Andrew Humpage, PhD&lt;br&gt;Senior Research Specialist in Chemical Contaminants&lt;br&gt;Australian Water Quality Centre&lt;br&gt;South Australia Water</td>
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<tr>
<td>9:45 - 10:25</td>
<td>Toxicity of Microcystin-LR and Anatoxin-a</td>
<td>Professor John Fawell&lt;br&gt;United Kingdom</td>
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<td>10:30-10:45</td>
<td><strong>BREAK</strong></td>
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<td>10:45-11:25</td>
<td>Regulating cyanotoxins: WHO guidance and national approaches</td>
<td>Ingrid Chorus, PhD&lt;br&gt;Head of Department, Drinking-Water and Swimming Pool Hygiene&lt;br&gt;Federal Environment Agency, Berlin</td>
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<td>11:25-12:10</td>
<td>Human Health Risks Associated with Microcystin in the James River Estuary</td>
<td>Paul A. Bukaveckas, PhD&lt;br&gt;Professor, Department of Biology&lt;br&gt;Virginia Commonwealth University</td>
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<td>12:10-1:00</td>
<td><strong>LUNCH</strong></td>
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<td>1:00 - 1:45</td>
<td>BMAA and Neurodegenerative Diseases in Humans</td>
<td>Neil Chernoff, PhD&lt;br&gt;Environmental Public Health Division&lt;br&gt;National Environmental Effects Research Laboratory&lt;br&gt;Office of Research and Development, US EPA</td>
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<td>1:45 - 2:30</td>
<td>Florida's Public Health Surveillance Strategies for Detection of Cyanobacteria-related Illness</td>
<td>Andrew Reich MS, MSPH&lt;br&gt;Coordinator Aquatic Toxins, Public Health Toxicology, Bureau of Epidemiology, Division of Disease Control and Health Protection, Florida Department of Health</td>
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<td>2:30 - 3:10</td>
<td>Toxic Cyanobacteria in Washington State</td>
<td>Joan Hardy, PhD&lt;br&gt;Office of Environmental Health&lt;br&gt;Safety and Toxicology&lt;br&gt;Washington State Department of Health</td>
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<td>3:10 - 4:00</td>
<td>Discussion</td>
<td>Elizabeth Hilborn, DVM, MPH&lt;br&gt;Office of Research and Development, US EPA</td>
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<td>4:00</td>
<td><strong>ADJOURN</strong></td>
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Presenters Contact Information

Dr. Ian Stewart
Adjunct Research Fellow
School of Public Health
Griffith University
SOUTHPORT, QLD
Australia
Phone: +61 439 660273; ian.stewart@griffith.edu.au

Dr. Wayne Carmichael
Prof. Emeritus, Department of Biological Sciences
Wright State University, Dayton, Ohio
Phone: 503-755-0711; Wayne.Carmichael@wright.edu

Dr. Elizabeth (Betsy) Hilborn
Environmental Public Health Division
National Environmental Effects Research Laboratory
Office of Research and Development
US EPA
CB# 731, Chapel Hill, NC 27599
Phone: 919-966-0658; Hilborn.elizabeth@epa.gov

Profa. Sandra M. F. O. Azevedo
Laboratório de Ecofisiologia e Toxicologia de Cianobactérias
Instituto de Biofísica Carlos Chagas Filho, CCS - Bloco G
Universidade Federal do Rio de Janeiro
Phone: 55 21 25626647/66478; sazevedo@biof.ufrj.br

Dr. Nick Osborne
Senior Research Fellow, European Centre for Environment and Human Health
University of Exeter Medical School
Streatham Campus, Northcote House
Exeter EX4 4QJ
Phone: +44 (0)1872 258156; n.j.osborne@exeter.ac.uk

Dr. Mark Werner,
Toxicologist
Division of Public Health
Department of Health and Family Services
Bureau of Environmental Health
State of Wisconsin
Phone: 608-266-7480
Email: mark.werner@wi.gov
Mr. Greg Stein  
Ohio Department of Health, Health Assessment Section  
Community Involvement/Health Education  
35 East Chestnut – 7th floor, Columbus, Ohio 43215  
Phone: 614-995-7017; Greg.Stein@odh.ohio.gov

Ms. Laurie Billing, Epidemiologist  
Ohio Department of Health, Bureau of Environmental Health  
Health Assessment Section,  
Columbus, Ohio  
Phone: 614-466-1390

Dr. Andrew Humpage  
Senior Research Specialist (Chemical Contaminants) Source, Wastewater & Environmental Research Australian Water Quality Centre, a business unit of SA Water  
Affiliate Associate Professor, School of Health Sciences, University of Adelaide  
Adjunct Associate Professor, School of Medicine, Flinders University of South Australia  
250 Victoria Square, Adelaide SA 5000, Australia  
GPO Box 1751, Adelaide SA 5001, Australia  
Phone: +61 8 7424 2064; www.awqc.com.au/awqc

Professor John Fawel  
9 Dandridge Drive  
Bourne End  
SL8 5UW  
United Kingdom HP10 9EW  
Phone: +44(0)1628 5208080; john.fawell@johnfawell.co.uk

Dr. Ingrid Chorus  
Federal Environment Agency  
Corrensplatz 1, 14195  
Berlin, Germany  
Phone: +49 30 8903 1346; ingrid.chorus@uba.de

Dr. Paul A. Bukaveckas  
Professor  
Department of Biology  
Virginia Commonwealth University  
pabukaveckas@vcu.edu

Dr. Neil Chernoff  
Toxicity Assessment Division  
National Environmental Effects Research Laboratory  
Office of Research and Development, USEPA  
Phone: 919-541-2651; Chernoff.Neil@epa.gov
Mr. Andrew Reich MS, MSPH  
Coordinator: Aquatic Toxins  
Public Health Toxicology, Bureau of Epidemiology  
Division of Disease Control and Health Protection  
Florida Department of Health  
4052 Bald Cypress Way, Bin # A-12  
Tallahassee, Florida 32399-1720  
Phone: 850.245.4187; andy_reich@doh.state.fl.us

Dr. Joan Hardy, Toxicologist  
Washington State Department of Health  
Office of Shellfish and Water Protection  
P.O. Box 47846, Olympia, WA  98504-7846  
Phone: (360) 236-3173; joan.hardy@doh.wa.gov