

Mark T. Aubel, Ph.D.  
Analytical Chemist

Dr. Aubel leads the analytical chemistry services of GreenWaterLab/CyanoLab. His primary responsibility is the development and implementation of improved methodologies for the identification and quantitation of algal toxins. He previously has 12 years service with Hercules' Pulp and Paper Division as a Senior Research Scientist and is a member of the American Chemical Society.

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### Education

- ◆ Oak Ridge National Laboratory / University of Tennessee: Oak Ridge / Knoxville, Tennessee (1987 – 1989) **Post-Doctoral Fellow** Activities: Characterization and development of silica ultramicroparticles for the rapid analysis of proteins. Characterization of reversed-phase HPLC stationary phases with ribonuclease A.
- ◆ University of Georgia: Athens, Georgia - **Ph.D. In Analytical Chemistry** – June 1987
- ◆ Doctoral Dissertation – “Kinetic And Liquid Chromatographic Studies Involving Immobilized Lactate Dehydrogenase And Other Proteins”
- ◆ Berry College: Mount Berry, Georgia - **B.S. In Chemistry** – June 1981

### Professional Organizations

- ◆ American Chemical Society
- ◆ Analytical Division
- ◆ Chromatography Sub-Division

### Project Experience

- ◆ Cyanolab, a Division of BCI Scientists and Engineers, Inc.): Palatka, Florida (2002-2005) *Principle Analytical Chemist*  
Activities: Build and supervise analytical chemistry laboratory and services for the analysis of cyano bacterial (blue-green algae) toxins. Implement SPE, SPME, and LC/MS/MS methodologies for ultra-trace level sensitivities. Investigate and apply new analytical technologies. Coordinate and manage projects/contracts (i.e. water utilities, St. Johns River Management District, etc.). Supervise laboratory technicians. Propose and conduct research projects.
- ◆ Hercules, Incorporated - PULP AND PAPER DIVISION (formerly BetzDearborn/Betz PaperChem, Inc.): Jacksonville, Florida (1994 – 2002) *Senior Research Scientist*  
Activities: Propose and implement research projects. Investigate new analytical technologies. Supervise laboratory technicians. Supervised analytical phase of biocide stability studies under GLP. Coordinated carbohydrate studies on slime with Microbiological Group. Directed development of LC/MS/MS method with contract lab. Implemented SPME for ultra-trace level sensitivities of biocides. Development of odor analysis capabilities.
- ◆ BETZ PAPERCHEM, INCORPORATED: Jacksonville, Florida (1990 – 1993) *Research Scientist*  
Activities: Methods development, trace level analyses, and problem solving in support of field sales force. Evaluation of SFE for replacement of Soxtec extraction. Qualification and quantification of white water, pulp, and felt extractables.