

**CASE WESTERN RESERVE UNIVERSITY  
EAST CLEVELAND PUBLIC SCHOOL DISTRICT  
PROVOST SCHOLARS  
Intensive University Seminar  
Session Eighteen – Spring 2016  
Thursday, March 17, 2016, 2:30pm-5:00pm  
Greater Cleveland Aquarium, 2000 Sycamore St., Cleveland, OH 44113**

### **Purpose**

The Provost Scholars will visit the Greater Cleveland Aquarium to investigate water quality in the Cuyahoga River and discover its deep interconnections with Cleveland's industrial history, and its potential implications for local and global communities

### **Presenter Biography**



The Greater Cleveland Aquarium is an aquarium occupying the historic FirstEnergy Powerhouse building in the west bank of the Cuyahoga River in the city's Flats district. The Aquarium opened in January 2012. It consists of approximately 70,000 square feet of exhibition space and features exhibits representing both local and exotic species of fish. The facility is the only free standing aquarium in the state of Ohio and ends a 26-year period that the city has been without a public aquarium. The goal of the Greater Cleveland Aquarium is to educate students in an entertaining and imaginative way about the freshwater and salt water aquatic environment and how residents' and community members' actions affect it. The Aquarium's education programs are designed to reinforce the Ohio Revised Science Standards and Model, and the programs employ

hands-on and inquiry science teaching methods wherever possible to engage students. A few of the programs the Aquarium offers include guided aquatic themed, grade appropriate, education programs, youth and scout programs, homeschool family programs and spring and summer day camps. The program the Provost Scholars will partake in is entitled "Water Quality Scientists." For more information, please visit:

<http://greaterclevelandaquarium.com/educate/fieldtrips/>.

### **Objectives**

#### **The Provost Scholars will...**

- 1) Explore the interconnection between Cleveland's industrial history and water quality of the Cuyahoga River
- 2) Investigate temperature, pH, dissolved oxygen, phosphates, nitrates, and turbidity
- 3) Examine the Ohio Freshwater gallery to become conversant about native aquatic species and discover why conservation is so important in local and global communities.

### **Agenda**

2:30 p.m. – 2:55 p.m.: Provost Scholars will travel to the Greater Cleveland Aquarium

2:55 p.m. – 3:00 p.m.: Introduction to Greater Cleveland Aquarium

3:00 p.m. – 3:45 p.m.: Water Quality Testing

3:45 p.m. – 4:00 p.m.: Discussion about Water Quality Testing

4:00 p.m. – 5:00 p.m.: Tour of the Greater Cleveland Aquarium

### **Faculty & Staff**

- Dr. Faye Gary Professor
- Katrice Williams, Master's Student, Program Manager
- Haruna Suleman, Master's Student, Program Assistant

**Word of the Week:** Turbidity. **What does it mean?** The cloudiness or haziness of a fluid caused by large numbers of individual particles that are generally invisible to the naked eye, similar to smoke in air. The measurement of **turbidity** is a key test of water quality.