



# International Summer University 2018: Mobile Integrated Systems for Environmental Monitoring

July 30<sup>th</sup> – August 11<sup>th</sup>, 2018 in Wolfenbüttel. Germany

Ostfalia University of Applied Sciences in Wolfenbuettel, Germany, **invites you** to the International Summer University (ISU 2017). Meet German and international students, study Integrated Systems in Water Quality Monitoring, visit Germany and have fun. *The Course will be followed by a 2nd two weeks ISU in August 2018 in Kenosha, Wisconsin, USA (information of course fees there on request).*

## CULTURE AND LANGUAGE

Visit Germany and get an insight into German history, culture and language. The region Braunschweig/Wolfenbuettel will lead you back to the Middle Ages. In Berlin, Germany's capital, you will come in touch with the former border line between East and West.

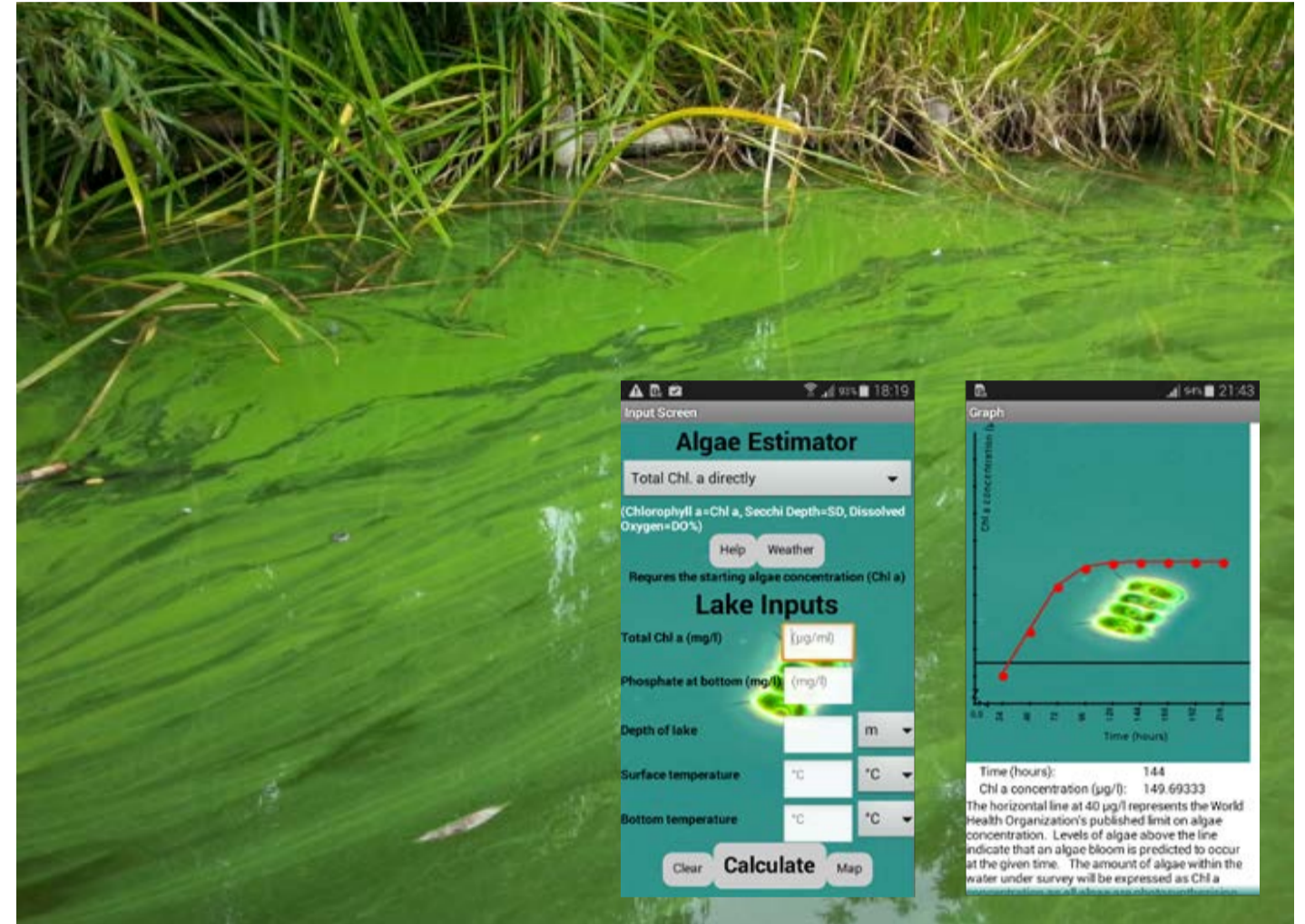
### Berlin, capital of Germany

City tour, Reichstag - Parliament Building, Chancellery, and former line of the Iron Curtain

**Wolfsburg:** Volkswagen Factory Tour and Autostadt

**Wolfenbüttel:** Town walk and Duke August Library

**Braunschweig:** Town walk, Birth place of Carl-Friedrich Gauss



## INTEGRATED SYSTEMS

Waste from industrialization and urbanization increasingly create a source of pollution in terrestrial and aquatic systems leading to land and water pollution and lake eutrophication. In order to monitor water quality, eutrophication and harmful algal blooms a smartphone app is developed and equipped with additional service features. Two courses are offered:

**Mobile – Cloud Integrated Systems (Course CS I / II)** (Prof. Altahad, UWP; Prof. Weimar Ostfalia) Participants will enhance an existing mobile application with cloud functionality and data analysis capabilities. In lectures the context will be prepared, and in lab sessions with hands-on project work, participants will develop tools for cloud storage, data mining, and statistical analysis of the app data as a service to environmental institutions for a continuous monitoring of different lake regions.

**Bioremediation Concepts and Water Monitoring (ES I / II)** (Prof. Skalbeck (UWP); Dr. Sander (Ostfalia) Participants will get acquainted with techniques to collect and evaluate data sets under field conditions in order to evaluate and predict eutrophication status in lake waters. They will get acquainted with bioremediation concepts and the role of monitoring options.

**Course fees:** 450 € including accommodation, breakfast, lunch excursions – Ostfalia Students free

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