



International Summer University 2017: Mobile Integrated Systems for Environmental Monitoring

July 30th – August 12th, 2017 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 2017 in Kenosha, Wisconsin, USA (information about course fees: miles@uwp.edu).*

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.

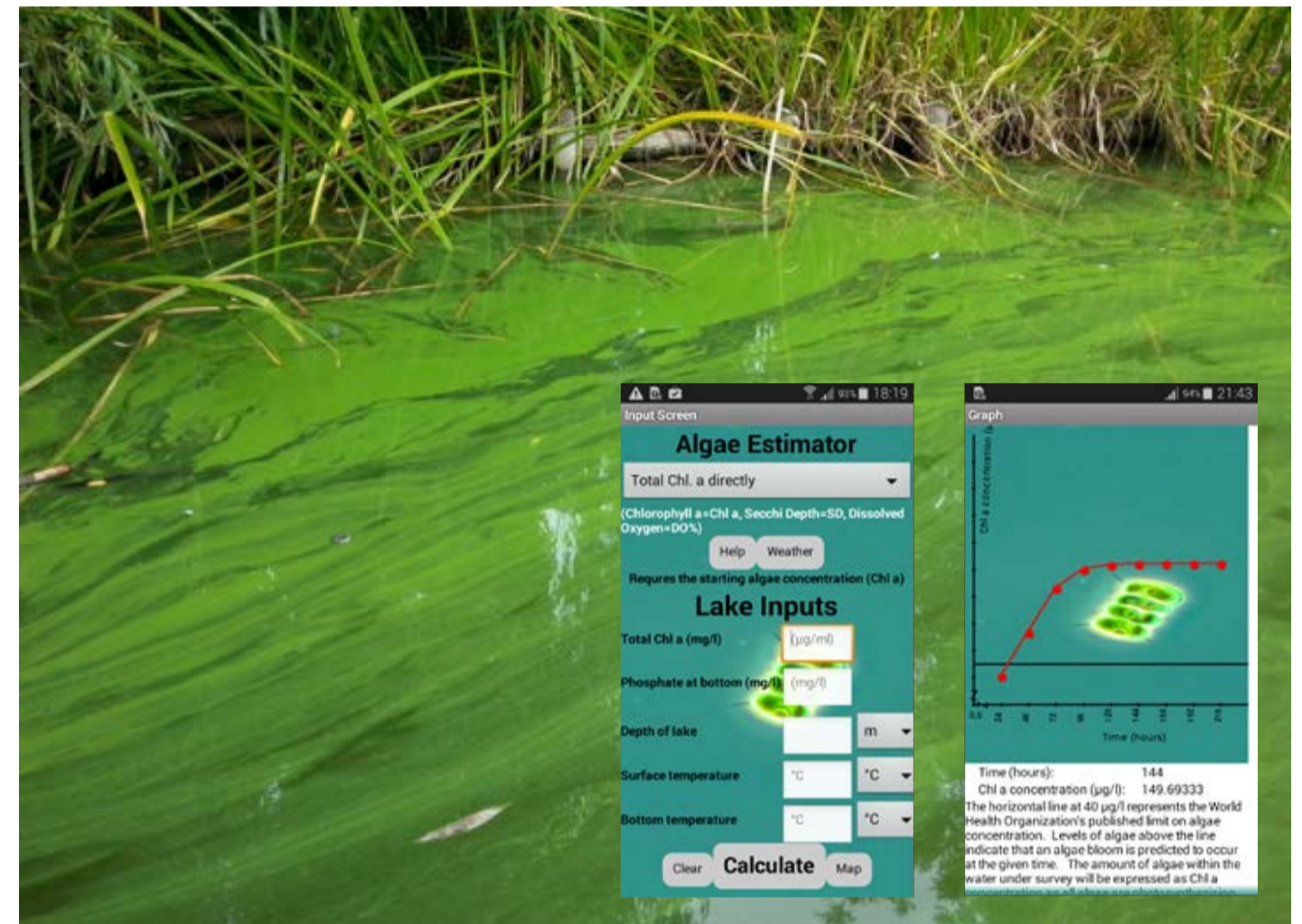
Berlin, capital of Germany

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. Quevedo (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.

Water Monitoring and Bioremediation Concepts (ES I / II) (Prof. Preuss/ Prof. Skalbeck(UWP); Dr. Sander (Ostfalia))

Participants in 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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