

GUEST LECTURE IN OPTIMIZATION AND SYSTEMS ENGINEERING



Dr Michael Bussieck at GAMS Development Corporation gives a guest lecture at the Center of Excellence in Optimization and Systems Engineering, Åbo Akademi University on **Thursday December 1st 2011** at 15:00 in Auditorium Ringbom, Axelia II, Biskopsgatan 8, Åbo, Finland.

Invited speaker
Michael Bussieck, PhD
GAMS Development Corporation
Cologne, Germany

GAMS - Striving for Innovation and Compatibility

The GAMS system has been around commercially for about 25 years. One of the reasons for its continued success is our dedication to 100% backward compatibility of the core language elements from day one. Many GAMS applications have seen changes in solver technology and have been moved from mainframe, to workstation, to PC and back. On the other hand, backward compatibility can be a restraint for embracing innovations especially when they require adjustments in the GAMS language.

We will explore the interplay of these conflicting objectives by looking at some of our recent projects that make emerging technology available in the GAMS system without compromising our conservative approach to syntax modifications.

The seminar is open to anyone interested.

Michael Bussieck joined the GAMS Development Corporation in 1998 after receiving his PhD from Technical University Braunschweig, Germany. He has lectured at George Washington University, USA, teaching students the art of modeling and theoretic concepts of mathematical programming. His focus is on optimization applications to problems in science and engineering.

The General Algebraic Modeling System (GAMS) is a high-level modeling system for mathematical optimization. GAMS is designed for modeling and solving linear, nonlinear, and mixed-integer optimization problems. The system is tailored for complex, large-scale modeling applications and allows the user to build large maintainable models that can be adapted to new situations. The system is available for use on various computer platforms. Models are portable from one platform to another. Initial research and development of GAMS was funded by the International Bank for Reconstruction and Development, usually referred to as the World Bank, through the Bank's Research Committee and carried out at the Development Research Center in Washington, D.C. Since 1987, R&D has been funded by GAMS Development Corporation.

More information about GAMS can be found from the web page www.gams.com

The Optimization and Systems Engineering group at Åbo Akademi University is an interdisciplinary research group within the Division of Natural Sciences and Technology. Appointed a Center of Excellence within research at the university for the period 2010-2014, the group focuses on theory, methods and algorithms in systems engineering, optimization and statistics, as well as their applications in science and engineering. More information about the CoE in OSE can be found from www.abo.fi/ose.

