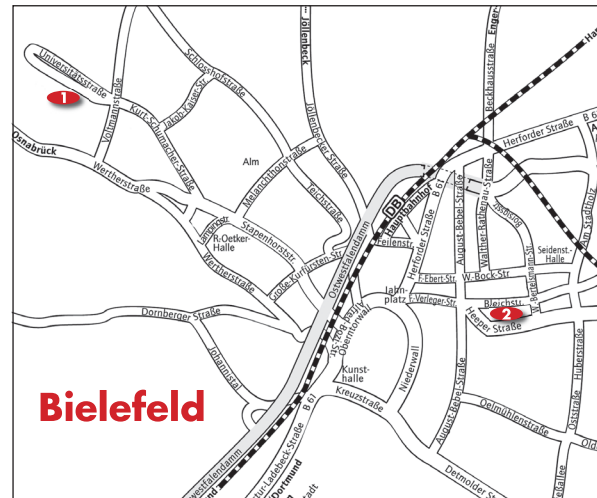# Conference Advertisement

Modelica is a freely available, object-oriented language that allows convenient and efficient modeling and simulation of complex, multi-domain physical systems described by differential, algebraic and discrete equations. The comprehensive Modelica Standard Library provides a growing number of open source models covering the following domains:

- **Analog and digital electrical circuits**
- **Electrical machines and drives**
- **Rotational and translational 1dim.-mechanics**
- **3-dim. multibody mechanics**
- **Thermal heat transfer**
- **Fluid heat flow**
- **Hierarchical state machines**
- **Control engineering**
- **Mathematics**

The development and promotion of Modelica and the Modelica Standard Library is organized by the nonprofit Modelica Association. Since March 2005, version 2.2 of the Modelica language definition has been available together with many free and commercial Modelica libraries, as well as commercial and open source Modelica simulation environments. Convenient interfaces are available for Matlab and Simulink (with Dymola) and to Mathematica (with MathModelica). The language, libraries and tools are used by a growing number of people in industry and academia for advanced and demanding applications, such as 3D vehicle and flight dynamics, hybrid electric powertrains, robotics, air conditioning systems, waste water treatment, electric power systems, hardware-in-the-loop simulations and embedded control systems with nonlinear Modelica models.

Since October 2000 the International Modelica Conference has been held every 18 months with a growing number of participants. In 2008, the University of Applied Sciences in Bielefeld will host the 6th International Modelica Conference. It provides people interested in Modelica the opportunity to learn about the language, model libraries and tools, and to meet others working on similar modeling problems.

6th INTERNATIONAL MODELICA CONFERENCE

March 3-4, 2008
Bielefeld, Germany

1 Universität Bielefeld
2 Ravensberger Spinnerei

MODELICA

AMMO
Applied Mathematical Modeling & Optimization

MODELICA

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Applied Mathematical Modeling & Optimization

www.modelica.org | www.fh-bielefeld.de/ammo

Conference Topics

- Multi-engineering modeling
  and simulation with Modelica
- Free and commercial Modelica libraries
  (mechanics, electrical, hydraulics, thermal, fluid, media,
  chemical, building, automotive, aircraft, ...)
- Automotive applications
- Thermodynamic systems applications
- Other industrial applications, such as electric drives,
  power systems, robotics, aerospace …
- Hardware-in-the-loop simulation and embedded
  control systems
- Modelica modeling, simulation and design tools
- Symbolic algorithms for model transformations
- Modelica in other application areas
  (mathematical programming, databases etc.)
- Modelica for teaching and education

Conference Program

- Modelica Tutorials for different levels
  of modeling experience
- Four parallel sessions (80 papers)
- Poster session
- User's group meetings
- Presentations from Modelica tool vendors
- Modelica Award for the 2 best free Modelica libraries

Conference Venue

AMMO – University of Applied Sciences, Bielefeld
Universitätsstraße 25, 33615 Bielefeld

Conference Fees

Regular participant € 480,–
Early registration until January 14th, 2008 € 420,–
Incl. VAT and ancillary events

PhD-Student participant € 240,–
Early registration until January 14th, 2008 € 210,–
Incl. VAT, incl. ancillary events

Student participant € 120,–
Early registration until January 14th, 2008 € 100,–
Incl. VAT, excl. ancillary events

Exhibitors € 1000,– (ca. 6 m^2)
Exhibitors € 500,– (ca. 3 m^2)

Schedule Deadlines

You are encouraged to submit an extended abstract of
2 pages, outlining the material you propose to present
or a full paper of maximum length of 10 pages until
November 5th, 2007. Notification on acceptance of papers
will be sent to the authors by November 26th, 2007.

Final papers are to be submitted until January 14th, 2008.
Additionally, you are encouraged to submit a free Mode-
lica application library in Modelica source code form to
modelica2008@modelica.org until November 5th, 2007.

The best two application libraries will get
an award of € 500 and € 250.

Companies whishing to take part at the exhibition
are invited to contact modelica2008@modelica.org
until November 5th, 2007.

In case you would like to organize a Modelica related
tutorial please contact modelica2008@modelica.org
until September 10th, 2007.

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