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Press-release: Students of Bauman Moscow State Technical University Will Use AxSTREAM to Learn and Practice Turbomachinery Design

BURLINGTON, Massachusetts, February 21, 2011. Kaluga Branch of Bauman Moscow State Technical University has adopted AxSTREAM to teach turbomachinery design. The university and SoftInWay Inc. signed a software license agreement according to which the Educational Version of AxSTREAM will be incorporated into the curriculum, helping students to gain a better, real-life understanding of the basic principles of turbine/compressor design.

AxSTREAM Educational Version is meant for design and optimization for four types of machines: axial turbine, axial compressor, radial turbine and radial compressor. It consists of modules for preliminary design, 1D/2D analysis, flow path multidisciplinary optimization, airfoil profiling, 3D blade stacking and 3D FEA/CFD analysis.

Dr. Jinov Andrey Alexandrovich, Professor of Mechanical Engineering in Kaluga Branch, stated: "We have always paid a particular attention to preparation of students for their future careers, selecting industry-leading design techniques and tools to supplement the course material. Therefore, the incorporation of AxSTREAM is the next logical step towards well-trained graduates and, consequently, the overall development of turbomachinery industry in Russia.

One of the key points while teaching turbomachinery design is to show students how preliminary design is performed, first for one stage and then for multistage flow paths. And here AxSTREAM will be helpful for us, since its preliminary design module allows setting many important parameters which influence efficiency, manufacturing cost and reliability of the final design, such as number of stages, diameters, blades heights and cascades metal angles, reactions of future flow path etc.

Using AxSTREAM features for airfoil cross-section profiling, it is easier to explain students how to find suitable airfoil outline on the base of flow calculations in planar profile cascades, with regard to boundary layer and compressibility effects. Finally, AxSTREAM is a very usable tool while providing students with an in-depth insight into 3D blade design: it allows selecting stacking of industry approved or newly designed profiles and preserving the needed level of blade surface curvature and technological constraints. All flow path modifications in 3D can be tracked, as AxSTREAM ensures much visualization.

All in all, I believe that AxSTREAM Educational Version is a great contribution to our teaching process that will definitely reinforce instruction and improve practical knowledge of flow path design in graduates."

"SoftInWay is pleased to declare our partnership with such an authoritative university as Bauman Moscow State Technical University; for us this agreement is a great opportunity for further development of the turbomachinery design industry worldwide," – concluded Dr. Leonid Moroz, President and CEO of SoftInWay Inc.

Beside Kaluga Branch of Bauman Moscow State Technical University, AxSTREAM Educational Version is successfully used by the educational community all over the globe, including Pennsylvania State University (USA), Tsinghua University (China), Namik Kemal University (Turkey) and Admiral Makarov National University of Shipbuilding (Ukraine).

AxSTREAM Educational Version is available for purchase in yearly and quarterly licenses at SoftInWay's website <http://www.softinway.com/education/axstream-educational-version.asp>.

About Kaluga Branch of Bauman Moscow State Technical University

Kaluga Branch of Bauman Moscow State Technical University is located in Kaluga, Russia. It was founded in 1959. The University now awards associate, bachelor's, master's, doctoral, and professional degrees. Website: <http://www.softinway.com/news/press-releases/www.bmstu-kaluga.ru>

About SoftInWay Inc.

SoftInWay Inc. is a USA corporation, headquartered in Burlington, MA. The company's mission is to serve the high technology community by providing software products and engineering services in the area of research, design and digital prototyping of power generation equipment. SoftInWay develops products for rapid turbomachinery design, provides technical engineering services and uses in-house and industry standard CFD, FEA and CAD tools to address design issues at the earliest possible stage to maximize engineering productivity and increase the efficiency and reliability of equipment. The core product, AxSTREAM™, is an integrated solution based on over 600+ years of collective turbomachinery experience of SoftInWay engineering team, with the clear goal of bringing to industry a professional software tool for rapid, optimized turbomachinery flow path design.

Website: <http://www.softinway.com/news/press-releases/www.softinway.com>