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FOR IMMEDIATE RELEASE

Leading industry experts come together for 5-Axis Machine Accuracy Training

Ashaway, RI – September 11, 2013 - IQL (Independent Quality Labs, Inc.) has partnered with IBS Precision Engineering to offer 5-Axis Machine Accuracy Training, a seminar that provides the understanding and application of fundamental metrology principles specific to the testing and improvement of 5-axis machine tool accuracy. The three day session is offered October 25-27, 2013 at the Connecticut Center for Advanced Technology in East Hartford, CT. Methods required for measuring and evaluating 5-axis machine tool performance are presented in simple, straightforward modules through lecture and live demonstrations featuring the latest in 5-axis measurement technology.

Karlo Apro of CNC Software, Inc. and author of “The Secrets of 5-Axis Machining” will share his expertise, along with Robert (Buz) Callaghan of IQL and Henny Spaan of IBS.

The course is recommended for manufacturing managers, manufacturing engineers and technicians aiming to improve machine tool productivity, process diagnostics, and implementing on-machine measurement as outlined in ANSI and ISO machine tool standards. Topics covered will provide the basis for determining 5-axis machine performance requirements and purchase specifications.

Anyone interested in learning how 5-axis machine tool accuracy impacts productivity will benefit from this comprehensive course. Machine tool metrology is often overlooked in today's manufacturing environment. However, successful manufacturers have learned how machine tool metrology can identify and help correct the root causes of many part quality issues and reduce hidden costs. If you have issues involving part failure due to a few critical feature tolerances or part quality changes from day to day or machine to machine, frequently changing machine offsets, etc., then how machine performance impacts part tolerance is something you need to understand.

For course details and registration, contact Charlotte Gardiner 1-866-549-2920, info@iqlinc.com or visit http://www.iqlinc.com/training/5axis_ma.htm.

About Robert (Buz) Callaghan

Robert (Buz) Callaghan, MSME, is the Senior Engineer at IQL Independent Quality Labs, Inc. He has over 47 years experience in precision tool and machine design and metrology. Buz has published numerous papers on the accuracy of CMMs and CNC machine tools. He is an active member of the ASME standard committees: B5.54 “Methods for Performance Evaluation of Computer Numerically Controlled Machining Centers,” and B5.57 “Methods for Performance Evaluation of Computer Numerically Controlled (CNC) Lathes and Turning Centers,” as well as a supporter of ISO 230 Test Code for Machine Tools. His expertise is sought after by those in the manufacturing community who want to understand machine behavior.

About Henny Spaan

Dr. Ir. Henny Spaan is president of IBS Precision Engineering in Eindhoven, The Netherlands, which he created in 1993 in parallel with finishing his PhD in precision engineering at Eindhoven University on Software Error Compensation of Machine Tools. Since then he has evolved his company into an internationally recognized expert in ultra precision metrology systems. Henny was president of euspen from 2009 to 2011; he served on the euspen Executive board from 2007 to 2012 and has been member of the board of directors from 2003 to 2012. He served on the ASPE board of directors from 2007 to 2009. Finally, he is member of CIRP and ISO TC213.

About Karlo Apro

Karlo Apro is a Technical Manager of Product Deployment at CNC Software Inc. (the makers of Mastercam), with over 35 years of hands-on experience in the manufacturing industry from Hungary, Germany, Canada and the USA. He wrote a book called "The Secrets of 5-Axis Machining" published by Industrial Press and multiple articles for a number of trade magazines. One of the pre-requisites of machine tool accuracy is precise G-Code output from a CAM system. Karlo will review 5-axis machine types and cover ways to precisely follow cut patterns while controlling the tool axis, and at the same time avoid any collisions.

About Connecticut Center for Advanced Technology

CCAT is a nonprofit corporation that provides services and resources to entrepreneurs and businesses and, through collaboration with industry, academia, and government, helps companies innovate and compete, thereby strengthening our nation in the global market. Their core programs address military and civilian industrial manufacturing needs, promote energy planning and policy initiatives, stimulate innovation and improve workforce development efforts -- particularly those geared toward technology competitiveness. CCAT Advanced Manufacturing Center is located at 409 Silver Lane, East Hartford, CT 06118.

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http://www.iqlinc.com/company/pubs/PR_5AMA_1013.pdf



5-Axis Machining [Photo Credits: Fishman Corporation]



Training with IQL



Rotary Axis Analyzer, 5-Axis Measurement Instrument



Robert (Buz) Callaghan, Instructor



Henny Spaan, Instructor



Karlo Apro, Guest Speaker