

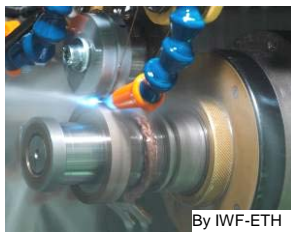


5th CIRP Conference on High Performance Cutting Mon. 4th – Thu. 7th, June 2012 Swiss Federal Institute of Technology, ETH Zurich, Switzerland

Third call for papers

The CIRP HPC 2012 Organizing Committee cordially invites you to participate in the 5th CIRP International Conference on High Performance Cutting, held in Zurich, Switzerland. The conference will be a place for researchers, users and providers of machining

technology with the scope to show the cutting edge of cutting technologies, innovations and visions in the area of high performance cutting and manufacturing technologies.



Organisation

Conference chairman:

Konrad Wegener, ETH Zurich, Switzerland

Conference co-chairman:

Friedrich Kuster, ETH Zurich, Switzerland

Conference secretary:

Martin Stöckli, inspire AG, Zurich, Switzerland

International advisory board:

Yusuf Altintas, The University of B.C., Canada

Gerry Byrne, University College Dublin, Ireland

David Dornfeld, University of California at Berkeley, USA

Ichiro Inasaki, Chubu University, Japan

Fritz Klocke, WZL, RWTH Aachen, Germany

Toshimichi Moriwaki, Setsunan University, Japan

Conference venue

More than 2000 years ago, Zurich was founded by the Romans as a fortress. Today, Zurich has about 400'000 inhabitants and is the largest city in Switzerland. Zurich is the main town of a canton also named Zurich. With snow covered mountains in sight, the huge water reservoir of the Lake of Zurich, important and numerous historical monuments, and a rich cultural scene, Zurich is one of Europe's most attractive cities. Zurich is not only important for its universities, but is also the commercial centre of Switzerland and a platform for international trade.

In 1855, the Swiss Federal Institute of Technology (ETH) was founded mainly as a school for engineers, but also as a compensation to Zurich for not being the capital city of Switzerland. Between 1861 and 1864, the impressive main building was created by Gottfried Semper. In the history of ETH, many well known scientists and Nobel price winners attended this school. Today, about 16'000 students are matriculated in 17 departments of all technical and scientific disciplines.

Contact

Conference secretariat

Phone: +41 44 / 632 86 11

Fax: +41 44 / 632 11 25

cirphpc2012@ethz.ch

Information

You will find detailed information about the conference and the paper submission at: <http://www.cirphpc2012.ch/>

Important deadlines

Abstract submission deadline:	14 October 2011 (extended deadline!)
Notification of acceptance:	31 October 2011
Full paper / poster submission:	16 December 2011
Notification of final acceptance:	17 February 2012
Final program announcement:	30 March 2012
Conference:	4-7 June 2012



Conference topics

The conference will cover a range of topics:

- Machining of metallic and non-metallic materials
- Micromanufacturing processes
- Hybrid machining
- Precision machining
- Die and mold machining
- Mechanics and dynamics of material removal processes
- Residual stress and damage modelling of finished surface
- Abrasive processes
- High speed spindle technology, models, tuning and testing
- High speed machine tool structures and configurations
- Machine design for micromachining
- CAD/CAM systems and strategies for high performance cutting
- Control of multi-axis machine tools
- Design methodology of multi-axis machine tools
- Cutting tool materials, tool design and tool performance
- Intelligent tooling
- Metrology and measurement
- Monitoring and control of machining operations
- Virtual cutting, simulation
- Sustainable manufacturing processes
- Die cutting

The topics are not limited to the above listing.

Submission instruction

Authors are invited to submit an extended abstract of no more than 400 words in English. Figures cannot be attached to the abstract.

The abstract should be submitted - open from 15 July 2011 onwards - via the website:

<http://www.cirphpc2012.ch>

This year, we are pleased to announce that there will also be the possibility to submit posters. While full papers must have 4 - 6 pages, poster summaries must have 2 pages, only. Poster papers can cover preliminary studies, prototype applications, or initial implementations. Poster papers are peer-reviewed in the same way as long

papers and are published in the same proceedings as the long papers. When submitting an abstract, please mark whether you want to submit for a paper or a poster.

Authors of accepted abstracts are invited to submit a paper or poster summary, which will undergo an in-depth review. When preparing your submission, please use the WORD paper template provided on the homepage.

After the final acceptance, authors should integrate the reviewers' comments and re-submit the final version of the paper.

Accepted papers / posters will be printed in the proceedings on the condition that at least one author will register for the conference.

International scientific committee

Abele, E. Germany
Aoyama, T. Japan
Arrazola, P. Spain
Aurich, J. Germany
Barry, J. Ireland
Bouzakis, K. Greece
Brinksmeier, E. Germany
Van Brussel, H. Belgium
Childs, T. UK
Denkena, B. Germany
Dumur, D. France
Heisel, U. Germany
Hoffmann, H.; Germany

Jawahir, I. USA
Jemielniak, K. Poland
Kaftanoglu, B. Turkey
Karpuschewski, B. Germany
Kirchheim, A. Switzerland
Knapp, W. Switzerland
Kruszynski, B. Poland
Kruth, J.P. Belgium
Lauwers, B. Belgium
Levy, G. Switzerland
Lucca, D. USA
Matsubara, A. Japan
Monostori, L. Hungary

M'Saoubi, R. Sweden
Neugebauer, R. Germany
Özel, T. Turkey
Rahman, M. Singapore
Smith, S. USA
Sutherland, J.W. USA
Teti, R. Italy
Uhlmann, E. Germany
Webster, J. USA
Wegener, K. Switzerland
Wertheim, R. Israel
Yamaguchi, H. USA