PRESENTATION an WORKSHOP on PIV APPLICATIONS in TURBOMACHINERY
PIVNET-2 European Thematic Network
Task 3.4
organized by:
Prof. Jakob Woisetschläger
and
Prof. Franz Heitmeir
Institut für Thermische Turbomaschinen und Maschinendynamik, Technische Universität Graz

OVERVIEW
Improving turbomachines requires detailed studies of flow phenomena in rotating turbomachines. The overall objective of experimental and theoretical work is the modelling and optimisation of the turbulent, high-speed, three-dimensional flows inside turbomachines. For this research the institute at TU Graz is equipped with a 3MW compressor station providing air continuously to a transonic turbine test rig. In this test rig three-component PIV is used for flow investigations as well as two-component Laser-Doppler-Anemometry, Laser Vibrometry and various types of pressure and temperature probes.

TARGET GROUP
This workshop is targeted principally at researchers and R&D engineers in the field of turbomachinery. Other interested people are cordially welcome.

LABORATORY DEMONSTRATIONS
A Laboratory demonstration is planned to give participants the opportunity to obtain an impression on the application of PIV in transonic turbomachinery flows.

CALL for PRESENTATIONS
Contributions (presentations) by other researchers active in the field of PIV and PIV related techniques in turbomachinery are invited. Interested people are requested to get in contact with the organizing secretariat by Tuesday 20th December 2005. Full length papers are not required; however electronic copies of the presentation and/or appropriate papers on the presented subjects should be made available for a post-workshop CD proceedings.

EXPRESSION of INTEREST
People interested in attending the Presentation and Workshop are kindly requested to return the Expression of Interest Form by Tuesday 20th December 2005. Due to space limitations, the total number of participants is restricted to 40.

REGISTRATION FEE
Registration is FREE for PIVNET2 partners. Non-PIVNET2 partners will contribute to the organising costs by paying a fee of 50.00 €, which includes lunch, coffee breaks and proceedings.

PROGRAM
• Paper presentations
• Laboratory demonstration of 3C-PIV in a transonic turbine flow
• Round table discussion
Detailed and updated information on the Program, Registration, etc. will be provided by email.

ACCOMMODATIONS
A number of rooms are available close to the institute’s location (within walking distance). Among them are:
Hotel Mercure Graz Messe (http://www.mercure.at/)
Hotel zur Stadthalle (http://www.stadthalle.co.at/ limited parking but good pricing)
Tourismus information and any hotel booking is also available via http://www.graztourismus.at/
A full map of the city of Graz can be downloaded from http://www.tugraz.at/dietug/graz/grazmap.html. In this map the institute is located in the southeast of the center (Inffeldgasse) and highlighted in red. Inffeldgasse is easily accessible via public transportation.

PRESENTATION and WORKSHOP on PIV APPLICATIONS in TURBOMACHINERY
PIVNET-2 European Thematic Network – Task 3.4
Graz, Austria, 1 – 2 March 2006

EXPRESSION of INTEREST FORM
Please mail or fax this form to:
PIVNET2 Organising secretariat, c/o J. Woisetschlaeger
Institut für Thermische Turbomaschinen und Maschinendynamik, Technische Universität Graz
Inffeldgasse 25A, A-8010 Graz, Austria
Fax: +43 316 873 7239
e-mail: jakob.woisetschlaeger@tugraz.at

Title ______________________________________ First Name ______________________________________
Last Name ______________________________________
Company ______________________________________ Division ______________________________________
Address1 ______________________________________ Address2 ______________________________________
Post code/city_________/ ______________________________________
Country ______________________________________
Telephone ______________________________________ Fax ______________________________________
e-mail ______________________________________

Please mark appropriate entries:
☐ I am interest in the Presentation and Workshop
☐ I am a PIVNET-2 partner.
☐ I am not a PIVNET-2 partner.
☐ I would like to present a paper.

Paper title ______________________________________
________________________________________________________________________________________
________________________________________________________________________________________
Date __________ Signature ________________________

GENERAL

PivNet-2 is a Thematic Network funded by EC. PivNet-2 is composed of 38 partners originating from industry, research organizations and universities. Many of them participate in European research programs like GROWTH etc. Industrial partners originate from both the PIV users and PIV manufacturers sides. They come from 14 different European countries and among the 38, 13 are industrials and 8 are large research organizations. 6 partners are small enterprises. The main fields already concerned in the network are aeronautics, turbomachinery, and the naval field.

Beside the primary PivNet consortium, another 50 teams participate in an interest group (ERCOFTAC SIG 32) and this is also taken into account in the network structure.

PivNet-2 is a follow up of the successful PivNet thematic network (1997 – 2002). PivNet-2 started in May 2002 and will run for 4 years. PivNet-2 is coordinated by Dr. Andreas Schroeder, DLR, Bunsenstrasse 10, D-37073 Göttingen, Germany, e-mail: andreas.schroeder@dlr.de

VENUE

The Presentation and Workshop will be hosted by the Institut für Thermische Turbomaschinen und Maschinendynamik, Technische Universität Graz which is located in the city of Graz, Austria. Graz can be reached by car, train or airplane

FURTHER INFORMATION

Information on the Institute
http://ttm.tugraz.at

Information on Technische Universität Graz:
http://www.tugraz.at

Information on the City of Graz:
http://www.graztourismus.at/

Information on PIVNET-2
http://pivnet.dlr.de/

First Announcement
PRESENTATION and WORKSHOP on PIV APPLICATIONS in TURBOMACHINERY
PIVNET-2 European Thematic Network Task 3.4
1 – 2 March 2006

Organising Secretariat

Mrs. Bianca Puntigam
Prof. Jakob Woisetschläger

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