



9. mezinárodní konference / 9th International Conference
Kocanda, Kravsko

Program

October 14th, 2025 – úterý / Tuesday

09:00 – 10:00 **Registrace a občerstvení / Registration and refreshment**

10:00 – 10:15 **Zahájení konference / Opening of the Conference**

10:15 – 10:45 **Hlavní přednáška / Keynote lecture (předseda / chairman M. Schüller):**

M. Jerman, A. Lebar, I. Sabotin, P. Drešar, J. E. Koroš & J. Valentinčič - *IceJet: recent advances and current challenges*

10:45 – 12:05 **Sekce A / Session A (předseda / chairman M. Schüller):**

R. Lindken, M. Ladwig, F. Zirngibl, D. Gradzki, B. Görres & M. Schüller - *Investigation of the jet formation and mixing characteristics of an Injection-type abrasive Slurry Jet (iASJ)*

P. Hlaváček, L. Sitek, P. Martinec & V. Foldyna - *Evaluation of cutting performance of abrasive materials in the abrasive water jet cutting process*

J. Prazmo, M. Forsyewicz & A. Perec - *Surface characteristics analysis of stainless steel produced by additive and conventional methods after Abrasive Water Jet treatment*

A. Chlupová, J. Poloprudský, D. Klichová, A. Nag & S. Hloch - *Water jet erosion of additively manufactured 316L steel*

12:05 – 13:30 **Oběd / Lunch**

13:30 – 14:50 **Sekce B / Session B (předseda / chairman F. Trieb):**

M. Schöler, B. Görres & M. Walotka - *The effect of fluid-mechanical loads during abrasive waterjet milling of zirconia ceramics*

E. Uhlmann & J. Köntopf - *Investigations on the effect of pulsed pure water jetting on post-processing of additively manufactured titanium workpieces*

M. Jerman, A. Lebar, I. Sabotin, P. Drešar, E. K. Harcageni & J. Valentinčič - *Cutting performance of 6061 aluminum on OMAX 2652A abrasive water jet system according to SN 214001*

J. Poloprudský, A. Chlupová, D. Klichová, S. Hloch & A. Nag - *Response of heat treated additively manufactured Ti6Al4V to cyclic water impingements*

14:50 – 15:15 **Přestávka + prezentace posterů / Coffee break + Poster session**

15:15 – 16:35 **Sekce C / Session C (předseda / chairman A. Perec):**

M. Kudasik, K. Kozieł, M. Skiba, A. Pajdak, P. Hlaváček, L. Sitek & K. Souček - *Controlled rock fracturing using the Waterjet method – impact on the seepage and structural properties of rocks*

A. Friederich, P. Foltyn, A. Schwab, & H. Reinsch - *Harnessing the Venturi effect: the development of the Kärcher Eco!Booster for a 50% increase in high-pressure cleaning performance*

W. Stepien - *Overview of current trends in waterjet cutting pumps*

V. Foldyna, P. Hlaváček, L. Sitek & J. Foldyna - *Rotating pulsating water jets as a hydrodemolition tool*

16:35 – 17:15 **Zasedání mezinárodního poradního výboru / International Advisory Board Meeting**

18:00 – 19:30 **Večeře / Dinner**

October 15th, 2025 – středa / Wednesday

10:00 – 10:30 Hlavní přednáška / *Keynote lecture* (předseda / *chairman* R. Lindken):

F. K. Miranda, M. Zeleňák & Z. Říha - *Analysis of Internal and External Flows Generated by Feedback-Free Fluidic Oscillators*

10:30 – 11:30 Sekce D / *Session D* (předseda / *chairman* R. Lindken):

G. Modoni, E. Salvatore, L. Wanik, J. Foldyna, L. Sitek, M. Zelenak & V. Salvi - *Hydrodynamics of jet grouting*

C. Cappello, A. Leopardi & G. Modoni - *Preliminary investigation of the efficiency of different nozzles for jet grouting*

N. Jendrny, M. Schöler, B. Görres, R. Pfaff & C. Schindler - *Selection of abrasive and suitable parameters for application of Water Jet cutting in vegetation management*

11:30 – 12:30 Oběd / *Lunch*

13:00 - 18:00 Dobrodružné poznávání Znojma s degustací piva, vína, kávy a čaje / *Adventure sightseeing tour in Znojmo with local beer, local wine, coffee and tea tasting*

19:00 – 23:00 Společenský večer s kulturním programem / *Social and cultural evening*

October 16th, 2025 – čtvrtek / Thursday

10:00 – 11:40 **Sekce E / Session E (předseda / chairman J. Foldyna):**

B. Görres, M. Schöler & M. Walotka - *Experimental study of machining characteristics and flow ratio for injection type Abrasive Slurry Jet (iASJ)*

A. Perec, E. Kawecka & A. Radomska-Zalas - *AWJ Cutting Optimization of the heat-resistant steel using Deep Learning Neural Networks*

D. P. Gradzki - *Visualization of submerged waterjets under pressurized conditions – Cavitation and its influence on rock breaking*

Z. Říha, M. Zelenák, C. Ravasio, G. Pellegrini, K. Souček & F. K. Miranda - *Modulation of high-speed water jet by small sized fluidic nozzle*

M. Walotka, M. Schöler & B. Görres - *Towards high-precision waterjet milling: a data-driven approach to minimise secondary jet effects in the processing of advanced ceramics*

11:40 – 12:00 **Přestávka – příprava k vyhodnocení nejlepších prezentací / Coffee break - time for evaluation of best presentations**

12:00 – 12:20 **Ukončení konference / Closing of the Conference**

12:20 – 14:00 **Oběd / Lunch**