



ICMEM 2018 | Your Science = Our Future

International Conference on Manufacturing Engineering and Materials

18th – 22nd June 2018, Nový Smokovec, Hotel Atrium, Slovakia

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About ICMEM2018 |

Scope |

Manuscript |

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Simply Explain |

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Organised by:

Faculty Manufacturing Technologies Technical University in Košice with a seat in Prešov, SK

and

- Institute of Geonics of the Czech Academy of Sciences in Ostrava, CZ
- Mechanical Engineering Faculty in Slavonski Brod, J.J. Strossmayer University in Osijek, HR
- Indian Institute of Technology (ISM) Dhanbad, IN
- Baden-Wuerttemberg Cooperative State University, Loerrach, DE
- Opole University of Technology, PL
- Institute of Material Research, Slovak Academy of Sciences, SK
- TEAM International Society

Scope:

Focuses on **advances** in the field of (un)conventional manufacturing processes that are needed to gain industrial competitiveness **with respect** on **sustainable development** and **preserving the environment**.

Original and novel research contribution in all aspects of manufacturing engineering and materials are welcomed.

Keywords:

(Un)conventional Processes | Advanced Manufacturing | Bio-Engineering | Casting, Forming and Molding | Design and Materials | Green Manufacturing | Measurement, Monitoring | Automation and Control | Modeling and simulation | Rapid Prototyping and Rapid Manufacturing | Robotics and Automation | Tribology | Welding, Joining and Assembly | Electrical Engineering | Artificial Intelligence





Manuscripts:

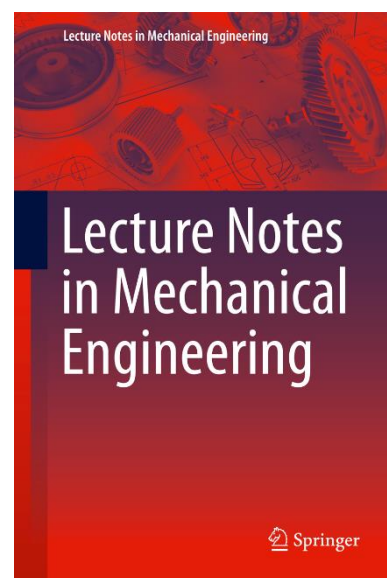
Prospective participants and/or authors are kindly invited to submit their **original papers**, posters and/or rollups. Papers are limited to maximum 8 pages. Article structure should contain: Title, Authors, Affiliation, Abstract, Keywords, Introduction, Materials and Methods, Results and Discussion, Conclusion and Future Scope, Acknowledgement, References. Keep the layout of the text as simple as possible. Proceedings guidelines for authors you may find here: <https://www.springer.com/us/authors-editors/conference-proceedings/conference-proceedings-guidelines>



**Call
for Papers!**

Peer review:

Before peer review process, each submitted manuscript will be checked using plagiarism detection software, in order to detect fake papers or dual publication. All manuscripts will be initially assessed by editors for suitability. After formal checks paper/s will be reviewed for publication in the Springer Lecture Notes in Mechanical Engineering with title: Advances in Manufacturing Engineering and Materials.



Presentation:

For oral presentation, **one of the authors should present their paper must be presented**. The author or one of the coauthors is required to present a summary of the paper in max. 10 minutes for oral presentation and 5 minutes for the Q&A session. The keynote lectures presentation length is max. 20 minutes, including the Q&A session. The softcopy of your PowerPoint presentation should be submitted to the secretariat during the registration at the desk or via e-mail: hloch.sergej@gmail.com.

~~PLAGIARISM~~



**Manuscript Submission |
Early Bird Registration |
Camera Ready Paper |**

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31. March 2018
15. June 2018**



The Best Paper Award:

Best paper award: Waterjet Technology

Sponsored by ANT AG, Lübeck:

1. 300,- Euro
2. 200,- Euro
3. 100,- Euro

Best paper award: Rapid Prototyping & Rapid Manufacturing

1. 300,- Euro
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Best paper award: Conventional Machining/Metal Cutting

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Best paper award: Laser Processing

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Explain Research to Children Award

The beauty of research is characterised by a simple fact: even a child may have questions that no scientist can answer.

Prepare your poster and explain your research **as simple as possible**.

The best poster/story will be awarded by **500 Eur**.

„If you can't explain it simply, you don't understand it well enough.“ A.E.



is your research important?



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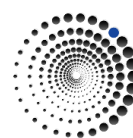
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THE KEYNOTE SPEAKERS



Prof. Dražan Kozak

Vice-rector of J.J. Strossmayer University in
Osijek, Croatia



Prof. Alessandro Ruggiero
University of Salerno, Italy

**Is the education and research in
STEM field one of the main keys to
the economic development?**

**Towards in-silico wear prediction in
artificial hip joints.**

**Methods of improving the efficiency
of machining of titanium alloys
used in aerospace industry.**

Suspension water jet



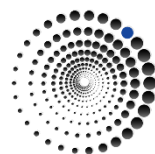
Dr. Witold Habrad
Rzeszow University of Technology, Poland



Prof. Frank Pude
Steinbeis consulting center high-pressure
waterjet technology, Germany

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THE KEYNOTE SPEAKERS



Dr. Petr Valášek
Czech University of Life Sciences Prague,
Czech Republic

**Polymeric-biocomposite systems
with plant fibres**



Prof. Hakan Tozan
Medipol University of Istanbul, Turkey

**Contemporary decision making
approaches to health technology
assessment**

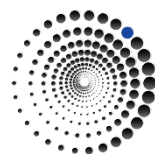


prof. Somnath Chattopadhyaya
Indian Institute of Technology, ISM Dhanbad,
India

**Critical investigation into the wear
phenomena of the cutter rings for Hard
Rock tunnel boring machine in Himalayan
region**

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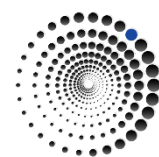
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Preliminary program

18 th June 2018		19 th June 2018		20 th June 2018		21 th June 2018		22 nd June 2018	
7:00		Breakfast							
8:30		Atrium Restaurant							
9:00		Opening Ceremony							
9:15		Room K1							
9:15		Keynote Lectures		Sessions		Sessions			
10:30		Room K1		Materials Room K1		Manufacturing Room K1			
				WaterJet Room S2		Production Room S2			
10:30		Technical Program		Coffee Break				Check out	
10:45				Foyer					
10:45		Keynote Lectures		Sessions		Sessions			
12:30		Room K1		Manufacturing Room K1		Manufacturing Room K1			
				Production Room S2		Production Room S2			
12:30		Lunch							
14:00		Atrium Restaurant							
14:00		Keynote Lectures		Sessions		Visitig of Astronomical Institute of Slovak Academy of Sciences in Skalnate Pleso https://www.ta3.sk/l3.php?p3=spo Depending on wheather			
15:30		Room K1		Manufacturing Room K1					
				Production Room S2					
15:30		Coffee Break							
16:00		Foyer							
16:00		Keynote Lectures		Sessions					
18:00		Room K1		Manufacturing Room K1					
				Production Room S2					
19:00		Gala Dinner		Dinner		Gala Dinner			
22:00		Best Papers Awards		Best Poster and		Atrium Restaurant			
		Social Evening		Presentation Award					
		Atrium Restaurant		Atrium Restaurant					

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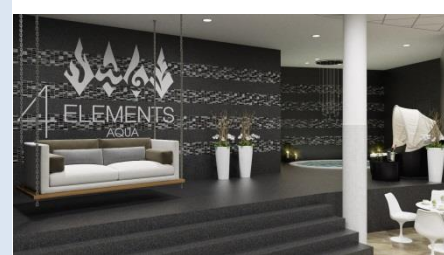


ICMEM 2018

Venue

Event will be held at the hotel Atrium in Novy Smokovec in High Tatras. The Hotel Atrium in Novy Smokovec is renowned for its unusual architecture (circular shaped building) as well as its location - at the foot of Slavkovsky's peak. Visitors can enjoy panoramic views of the mountains from both the restaurant and bedrooms. It is an ideal place for holiday with children as well as conferences, seminars and workshops for business delegates. The hotel offers comfortable accommodation in 87 bedrooms, 5 conference halls, superb Slovak and international cuisine and relaxation in its Wellness Center. Since September 2011 the hotel also offers a unique opportunity of hosting weddings right in the heart of the Tatra Mountains. The hotel's mascot and mountain guide SKALKO is available to entertain children. There are many tourist attractions available nearby. The funicular railway to Hrebienok is only a short walking distance from the hotel. Hrebienok is a starting point for various hiking treks. Different varieties of sports and entertainment are available to you during both the summer & winter seasons. **For ICMEM2018 delegates prices are as follows: 60 Eur 1/1double bedroom, 71 Eur 2persons/1double bedroom.**

When you make a reservation, please identify yourself in the subject or body of e-mail as a participant of ICMEM2018.





Lomnický štít Observatory

Enjoy views of the Tatra peaks and landscapes and enjoy a cup of coffee in a café Dedo .

Initiated by the world-wide activity of the International Geophysical Year 1957 construction of an astronomical observatory on the Lomnický peak was realized in the period 1957-1962. Here, at really a high-altitude height of 2 632 meters above sea level, a 20/300 cm ZEISS coronagraph was installed in 1962. First regular observations of the H alpha prominences started in 1962 and observations of the emission lines, originating in the solar corona, in 1964. In 1970 an identical telescope was installed at the same mount. Today, the observatory ranks among just few existing ground-based observatories worldwide which systematically observe emission spectral lines of the solar corona.



Studený potok Waterfalls

The most famous and most affordable Tatra waterfalls are easily accessible from our hotel.

Tourist route : Old Smokovec - Hrebienok - Studenovodské Waterfalls

Difficulty: easy

Time: 2 hours



The treetop walk Bachledka

The Treetop walk can be found in the heart of majestic forests of the Bachledova Valley. There you can see the unique nature of the Belianske Tatras. You can explore local forests together with us. You will be immersed in the forest and learn about many animals and plants that can be found only in a few places of the world.

<http://chodnikkorunamistromov.sk/en/#>

Facultative trips



Zelené pleso

This chalet (1551 m) is situated in the Green Mountain-Lake Valley on the eastern bank of the mountain-lake.

The valley is attractive for tourists, bikers, mountain-climbers and skiers because of very suitable terrain conditions for these sports.

The first tourist visitors of the Green Mountain-Lake could sleep only outside or in chalets in Rakúska Poľana and Predné Medodoly. The first small cottage, Egidova Chalet, arose in Rakúska Poľana in 1876. In 1887 it was moved to the southern bank of the mountain-lake where it burned down in 1890. In 1897 a new one, The Fridrich's Cottage, was built on the northern bank. The current design it gained after it was renovated in 1924 and after the both World Wars. After 1950 the chalet had name of Albert Brnčal (1919 - 1950), the professor of physical education and at the same time a member of Tatra's Mount-climbers Committee (IAMES), who tragically died under Jastrabie Saddle in Malá Zmrzlá Dolina (the Small Frozen Valley) as a climbing instructor. Nowadays the chalet is called the Chalet at the Green Mountain-Lake.



Lomnický peak

(depending on wheather)

Make a trip to the second highest peak of the High Tatras - Lomnický peak (Lomnický štít) with your family. Get above the clouds and enjoy unforgettable views of surrounding peaks of the smallest grand mountains in the world. Enter the kingdom of silence and relax in the stylish Dedo café. A 4-person cable car operates from the lower station in Tatranská Lomnica to mid-station Štart, from there a comfortable 15-person cable car continues to Skalnaté Pleso – its upper station, which is also the interchange station on the journey to Mt. Lomnický štít. From there you can take a unique red suspension cable car to Lomnický peak. which surmounts a vertical drop of 855 metres. The ride takes 8.5 minutes.

Technical information

Manuscript preparation guidelines

During manuscript preparation keep the formatting as simple as possible. Use Times New Roman, 12-point type, single line spacing and 25mm margins. Please ensure the figures (300 dpi) and the tables included in the single file are placed next to the relevant text in the manuscript.

For citations of references, we prefer the use of square brackets and consecutive numbers. The following bibliography provides a sample reference list with entries for journal articles [1], an LNCS chapter [2], a book [3], proceedings without editors [4], as well as a URL [5].

References example:

Author, F.: Article title. Journal 2(5), 99–110 (2016).

Author, F., Author, S.: Title of a proceedings paper. In: Editor, F., Editor, S. (eds.) CONFERENCE 2016, LNCS, vol. 9999, pp. 1–13. Springer, Heidelberg (2016).

Author, F., Author, S., Author, T.: Book title. 2nd edn. Publisher, Location (1999).

Author, F.: Contribution title. In: 9th International Proceedings on Proceedings, pp. 1–2. Publisher, Location (2010).

LNCS Homepage, <http://www.springer.com/lncs>, last accessed 2016/11/21.

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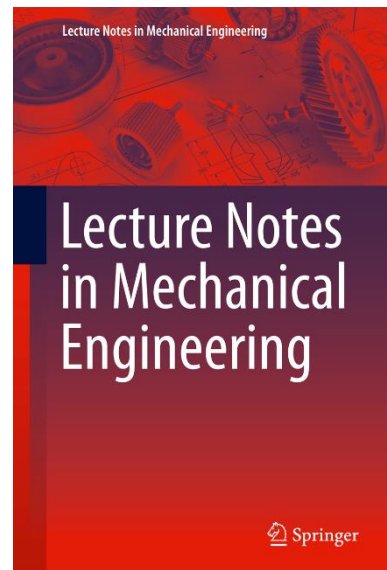
For each paper, at least one conference fee must be paid, if not, it can happen that the paper will not be included in the final program. Registration fee covers the entry to all sessions, lunch & coffee/tea breaks, conference kit, proceeding processing, manuscript formatting, attendance certificate, keynote certificate banquet, dinners and accompanying program.

Registration fee:

Conference participants	250 €	280 €
PhD. Students (to be the first author)	100 €	150 €

The **early bird** rate of the Conference registration fee will be 250 Eur per delegate for payments made before **31.03.2018**, and the regular rate of 280 Eur will apply thereafter.

The fee for an accompanying quest, who will not attend the ICMEM 2018 is 180 Eur, that covers the reception, conference Get-Together Evening and the Social Programmes.



Paper/s will be reviewed for publication in the Springer Lecture Notes in Mechanical Engineering with title: Advances in Manufacturing Engineering and Materials.