

**FACULTY OF PRODUCTION TECHNOLOGY AND MANAGEMENT,
JANA EVANGELISTA PURKYNĚ UNIVERSITY IN ÚSTÍ NAD LABEM, CZ**

CONSTELLIUM EXTRUSIONS DĚČÍN, S.R.O.

OLYMPUS CZECH GROUP, S.R.O., THE MEMBER OF CONCERN

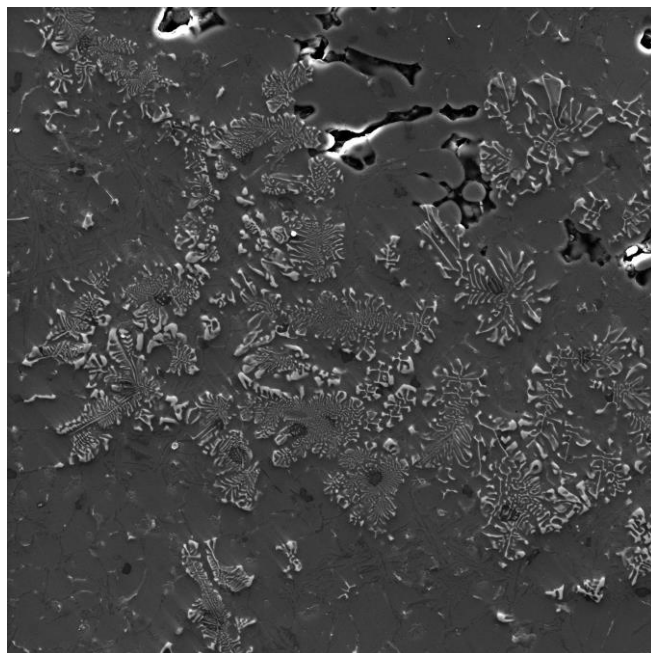
**DEPARTMENT OF METALS AND CORROSION ENGINEERING, INSTITUTE OF
CHEMICAL TECHNOLOGY IN PRAGUE, CZ**

AND

**OTHER WORKPLACE MANUFACTURING TECHNOLOGY AND MATERIALS
ENGINEERING UNIVERSITIES AND INDUSTRY**

Invite you to the 10th International Conference

ALUMINIUM AND NON-FERROUS METALS 2017



10. – 13. 10. 2017
Hotel u Kata – Kutná hora

II. Circular Letter

www.konference-fvtm.cz

Venue of the conference

10. – 13. 10. 2017

Hotel U Kata

Uhelná 596
Kutná hora
284 01

www.ukata.cz

e-mail: hotel@ukata.cz

phone: +420 327 515 096



Objectives of the Conference

ALUMINIUM and NON-FERROUS METALS 2017 allow the exchange and presentation of knowledge in solving production problems related to the processing of non-ferrous metals and their alloys, acquaint participants with the introduction of new materials and technologies, unconventional non-ferrous materials, powder metallurgy and composite materials etc. We also bring information on the development and research, methodologies and techniques in the field of metallography and testing of materials, an overview of research and development in the area and allow presentations of companies offering devices, products and preparations related to the production and use of non-ferrous metals.

The main objectives of the conference **ALUMINIUM and NON-FERROUS METALS 2017** are to provide a global overview of the current situation in the following areas:

- metallography and fractography, properties, testing and structural analysis of non-ferrous metals,
- aluminium in transport - new trends, new aluminium materials and technologies,
- melting, casting and crystallization, forming, heat treatment of non-ferrous alloys,
- cutting and joining of materials of non-ferrous metals,
- corrosion and surface protection by non-ferrous metals,
- powder metallurgy of non-ferrous metals, composites, intermetallics,
- new trends and opportunities in the use of non-ferrous metals,
- the use of CAx technologies in the production of products of non-ferrous metals and its alloys.

The Scientific Committee of the Conference

prof. Ing. Ivan Lukáč, PhD.

Faculty of Metallurgy, Technical University in Košice, SK

prof. Ing. Jan Mádl, CSc.

Czech Technical University in Prague, Praha, CZ

prof. Dr. Ing. Dalibor Vojtěch

Department of Metallic Materials and Corrosion Engineering, VŠCHT, Praha, CZ

prof. Ing. Dana Bolibruchová, PhD.

Faculty of Mechanical Engineering of Žilina University, University of Žilina in Žilina, SK

prof. Stanislaw Legutko, D.Sc.

Faculty of Mechanical Engineering and Management, University of Poznan, PL

prof. Ing. Iva Nová, Ph.D.

Faculty of Mechanical Engineering, Technical University in Liberec, CZ

prof. Dr. Ing. Antonín Kříž

Department of Material Science and Technology, FS ZČU, CZ

prof. Ing. Štefan Michna, PhD.

Department of technology and material engineering, FVTM UJEP, Ústí nad Labem, CZ

doc. Ing. Nataša Náprstková, Ph.D.

Department of technology and material engineering, FVTM UJEP, Ústí nad Labem, CZ

doc. Ing. Dana Stančėková, PhD.

Department of Machining and Manufacturing Technology, University of Žilina

doc. Ing. Daniela Kalincová, PhD.

Faculty of Environmental and Manufacturing Technology, Technical University in Zvolen, SK

doc. Ing. Jarmila Trpčevská, PhD.

Faculty of Metallurgy, Technical University in Košice, SK

doc. Ing. Miroslav Müller, Ph.D.

Faculty of Technology, Czech University of Agriculture in Prague, CZ

Ing. Anna Rudawska Ph.D., D.Sc.

Lublin University of Technology, PL

Ing. Alena Němečková

OLYMPUS CZECH GROUP, S.R.O., THE MEMBER OF CONCERN

Accompanying Events

- exhibition and presentation of companies
- competition "The best colour and B&W photography structures of non-ferrous metals"
- presentation and sales of specialized literature
- visit of the castle Kačina with an accompanying program
- visit of the St. Barbora cathedral with a concert performance
- social evening with a program
- competition for the best Ph.D. presentation



Participation Fee

Participation Fee: **180 EUR (4 500 CZK)** per person with VAT.

The conference fee includes renting rooms, technical equipment, refreshments, social events etc.

The Publication fee is not included in the participation fee.

Form of payment by invoice.

Accommodation is paid by each participant individually and it is done after arrival at the point of the conference. The Organizing Committee will only provide accommodation reservation.

Conference Language and Publication

Conference languages are *Czech, Slovak and English*. Entries must be delivered in the language:

English (GB English) for publication in the journal *Manufacturing Technology*, which is ranked in the world's citation database SCOPUS.



Conference Organizing Committee

prof. Ing. Štefan Michna, Ph.D.,
Department of technology and material engineering, FVTM UJEP, Ústí nad Labem, CZ

Ing. Radomír Kejř,
Constellium Extrusions Děčín, ČR

doc. Ing. Nataša Náprstková, Ph.D.,
Department of technology and material engineering, FVTM UJEP, Ústí nad Labem, CZ

doc. Ing. Martin Novák, Ph.D.,
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Department of technology and material engineering, FVTM UJEP, Ústí nad Labem, CZ

Ing. Alena Michalcová, Ph.D.,
Department of Metallic Materials and Corrosion Engineering, VŠCHT, Praha, CZ

Ing. Iva Nováková, Ph.D.,
Faculty of Mechanical Engineering, Technical University of Liberec, CZ

Ing. Petr Majrich, Ph.D.,
Department of technology and material engineering, FVTM UJEP, Ústí nad Labem, CZ

Ing. Jaromír Cais, Ph.D., Ing. Pavel Kraus, Ing. Irena Lysoňková, Ing. Radek Lattner, Ing. Michnová Lenka

Department of technology and material engineering, FVTM UJEP, Ústí nad Labem, CZ

Important!!!!!!

The publishing of the article in the journal is subjected to fulfilling the requirements for writing the articles: delivery of a contract for the transfer of copyrights to the paper and a review process resulting in the publication of the article for publication.

Journal Manufacturing Technology (ISSN 1213-2489) - MT

For articles **in English**, which the author presents the magazine Manufacturing Technology (ISSN 1213-2489) is used **exclusively MTAA web portal** for posting to this journal, see the link below.

<http://journal.strojirenskatechnologie.cz/portal/>

If the author is not registered on the portal MTAA must first register, i.e. complete all the required information and submit the form. Subsequently receive e-mail with a link to confirm your registration, thereby activating their personal page. On this page you will have the option to post articles (not just for this conference), and track the status of your article.

For conference Microscopy and Non-destructive Material Testing 2016 when inserting article, please select the "Type of article" the "**Aluminium conference article**" to assign your article just to this event. Formal requirements for writing articles (template) + contract for the transfer of copyright are introduced in the system of internet application.

The publication in the MT magazine is within the Aluminium conference with an extra charge of 100 EUR with VAT (2 700 CZK with VAT).

The full text of the papers will be accepted only until 30. 8. 2016

The invoice to pay the publication fee will be send to the article author after accepting the paper to publication (successful review process).

Articles that will not pass the review process will not be published.

In case of late article sending (after 30. 8. 2017) the author is aware that the article will not be published in the designated Manufacturing Technology number for this conference. If you are interested in posting a post, you must pay the full publication rate, i.e. 150 EUR excluding VAT.

Framework Program

Detailed timetable for the conference with precise timing arrangement of individual contributions and the lectures will be distributed in III. Circular Letter to 5. 10. 2017.

10. 10. 2017	Registration of conference participants	16:00 – 17:00
	Dinner	17:00 – 18:00
	Visit of the St. Barbora cathedral with a concert performance	18:00 – 20:00
11. 10. 2017	Registration of conference participants	08:00 – 10:00
	Opening of the conference	08:30 – 08:45
	1. Session of the conference	08:45 – 12:00
	2. Session of the conference	13:00 – 15:00
	Visit of the castle Kačina	16:00 – 19:00
	Dinner	19:30
12. 10. 2017	3. Session of the conference	09:00 – 13:30
	4. Session of the conference	14:30 – 17:30
	Conclusion of the second day of the conference	17:30 – 17:40
	Negotiations of editorial board	18:00 – 19:00
	Social evening program	19:00

*During the first and second day will also run a competition for "**The most beautiful colour and black and white material structure**"*

Competition will be held in two categories namely in the field of colour photography and in the field of black and white photography. Each participant may submit max. 3 colour and 3 black and white photographs of material structure (it is possible to participate in only one of these categories). Photos can be in size max. A4. Each photograph is then needed to describe: zoom, 1 - 2 sentence description of the structure, method of etching and observation.

Photos will be posted during the first day of the conference and will be evaluated by the Competition Commission and the participants (Vox Populi). The winners will be awarded with prizes. Awards will be presented at the social evening of the conference. **Photo images should be sent no later than 1. 10. 2017 to the contact address.**

Important Dates

- | | |
|--------------------|--|
| till 30. 5. 2017 | Sending of the completed preliminary application and abstract |
| till 30. 6. 2017 | Sending of the II. Circular Letter |
| till 30. 8. 2017 | Deadline for sending articles - the full text of the article and advertisement in the magazine |
| till 10. 9. 2017 | Deadline for sending binding applications |
| till 30. 9. 2017 | Sending III. Circular Letter - the final conference program , hotel address, in which participants will be accommodated; plan showing the location of the conference
Registration fee (charge for advertising and conference separate space) |
| till 1. 10. 2017 | Sending photos (6 pieces max.) for the “Best Photo structure of non-ferrous metals” |
| 10. – 13. 10. 2017 | Conference venue |

Contact Addresses

- Ing. **Jaroslava Svobodová**, Ph.D.
Contact person for conference participants
e-mail: svobodova@fvtm.ujep.cz
phone: 00420 475 285 550
- prof. Ing. **Štefan Michna**, Ph.D.
Contact person for businesses and advertising
e-mail: michna@fvtm.ujep.cz
phone: 00420 475 285 529

• **DTMI FPTM UJEP**
Pasteurova 3334/7
400 96 Ústí nad Labem, Czech Republic

Company Presentations and Advertising in Magazines

To the registered firms and companies is enabled the presentation in the form of lectures, handouts, demonstrations of instruments, devices or products. Each company will have a separate place for the presentation of their products (brochures) and possibly the advertisement in the conference journal.

Data for the publication of advertisements in magazines (Manufacturing Technology) must be delivered **no later than 30. 8. 2017**. Materials for advertising consult with journal editors through e-mail redakce@fvtm.ujep.cz. The delivered advertisement will not be edited.

PRICE FOR ADVERTISEMENT in the magazine Manufacturing Technology is 200 EUR (5 000 CZK) for 1 page A4 in black and white and 400 EUR (10 000 CZK) for 1 page A4 in colour.

PRICE OF THE COMPANY PRESENTATION IN THE CONFERENCE ROOM for rental of the space for equipment and facilities is 80 EUR (2 000 CZK).

* Prices with VAT

Conference Venue and Accommodation

Hotel U Kata – Kutná Hora

Accommodation will be booked based on binding application and requirements. Conference participants will be accommodated at the Hotel U Kata or the Hotel Zlatá Stoupa in Kutná Hora near the venue (according to the required capacity).

Accommodation will be paid on the spot in the hotel where the reservation is booked.

For more information about accommodation and hotel U Kata, visit: <http://www.ukata.cz>.

Accommodation prices:

- **Hotel u Kata**
 - Single or double room occupied by one person
 - 900 Kč/pers. night including breakfast
 - Accommodation for 2-4 bed rooms per person
 - 550 Kč/pers. night including breakfast
- **Zlatá Stoupa**
 - Single room
 - 900 Kč/pers. night including breakfast
 - Double room
 - 1400 Kč night including breakfast



HOTEL U KATA



HOTEL ZLATÁ STOUPA



Preliminary summary of lectures

Totka Bakalova	TU v Liberci	<i>Improving the Tribological and Mechanical Properties of an Aluminum Alloy by Deposition of AlSiN and AlCrSiN Coatings</i>
Juraj Belan	Žilinská univerzita v Žiline	<i>The SEM Investigation of Inconel 718 Fatigue Process at Various Loading Conditions</i>
Adriana Bernatíková	VŠCHT v Praze	<i>Příprava aluminidů titanu a železa pomocí mechanického legování</i>
Michal Boháčik	Žilinská univerzita v Žiline	<i>Identifikácia vnútorných chýb hliníkových odliatkov ultrazvukovou technikou (Identification of Aluminium Castings Internal Defects by Ultrasonic Technique)</i>
Dana Bolibruchová	Žilinská univerzita v Žiline	<i>Vplyv rýchlosti ochladzovania na tvorbu železitých fáz v zliatine AlSi7Mg0,3</i>
Drahomír Dvorský	VŠCHT v Praze	<i>Charakterizace kompozitních materiálů s hořčíkovou maticí připravenými práškovou metalurgií</i>
Michaela Fousová	VŠCHT v Praze	<i>Vliv podmínek přípravy vzorků slitiny Ti6Al4V aditivní technologií SLM</i>
Martin Fujda	TU Košice	<i>Natural Aging Behaviour of EN AW 6082 and Lead Free EN AW 6023 Aluminium Alloys</i>
Miroslav Glogovský	TU Košice	<i>Structure and Properties of Extruded Carbon Fibers Reinforced EN AW 6082 Aluminium Matrix Composites</i>
Vladimír Hönig	ČZU v Praze	<i>Stanovení intervalu výměny olejové náplně vznětových motorů podle množství neželezných kovů</i> <i>Stanovení intervalu výměny olejové náplně benzinových motorů podle množství neželezných kovů</i>
Iryna Hren	FVTM UJEP	<i>Výzkum vlivu beryllia na modifikaci u slitin typu Al-Si</i>
Zdeněk Juříček	AL INVEST Břidličná, a.s.	<i>Posouzení účinnosti aplikace AlTiB drátu v podmínkách kontinuálního lití pasů z Al slitin</i>
Anna Knaislová	VŠCHT v Praze	<i>Vysokoteplotní chování slitin Ti-Al-Si připravených metodou Spark Plasma Sintering</i>
Michaela Kolnerová	TU v Liberci	<i>Vliv tepelného zpracování na změnu vlastností povlaku AlSi u vysokopevnostních plechů</i>

Zdeňka Kolská	PřF UJEP	<i>„Na velikosti záleží“ aneb není kov jako kov</i>
Antonín Kříž	ZČU v Plzni	<i>Vliv chemického složení a struktur na degradační procesy hliníkových slitin</i>
Jiří Kubásek	VŠCHT v Praze	<i>Charakterizace hořčíkové slitiny WE43 připravené různým termomechanickým zpracováním</i>
Vojtěch Kučera	VŠCHT v Praze	<i>Aluminium Alloy 7075 Prepared by Powder Metallurgy</i>
Tomasz Lipiński	University of Warmia and Mazury in Olsztyn	<i>Analysis of Mechanical Properties of AlSi9Mg Alloy with Al-Ti-B Additions</i>
Petr Louda	TU v Liberci	<i>Improving The Tribological and Mechanical Properties of an Aluminum Alloy by Deposition of TiCN Coatings</i>
Ivan Lukáč	TU Košice	<i>Interpretácia výsledkov fraktografie v praxi</i>
Jan Luštinec	SVÚM, a.s.	<i>Vliv parametrů homogenizace na strukturu slitin EN AW 6082 a EN AW 6110</i>
Miloš Matviija	TU Košice	<i>Phase Analysis of EN AW 6023 Aluminum Alloy after Short Time Ageing</i>
Alena Michalcová	VŠCHT v Praze	<i>Powder Metalurgy Prepared Al Alloys and their „Self-healing“ Possibilities</i>
Lenka Michnová	FVTM UJEP	<i>Intermetalické fáze v polykomponentní slitině AlSi9Ni2CuMgMn0,6</i>
Miroslav Müller	ČZU v Praze	<i>Effect of Surface Treatment of Adhesive Bonded Sheet of Duralumin EN AW 2024 T3 on Adhesive Bond Strength Created by Means of Structural Two-component Adhesive</i>
		<i>Research on Aluminium Alloy AlCu4Mg Surface Machined by Abrasive Water Jet</i>
Pavel Nachtnebl	ČVUT v Praze	<i>Diffusion Welding of Alloy AlMg3</i>
Daniel Novák	Univerzita Mateja Bela v Banskej Bystrici	<i>Laserové sváření hliníkových slitin</i>

Peter Palček	Žilinská univerzita v Žiline	<i>Vplyv chemického zloženia zliatin horčíka na ich vnútorné tlmenie</i>
Richard Pastirčák	Žilinská univerzita v Žiline	<i>The Impact of Technological parameters on Casting Integrity, Mechanical Properties and Structure of AlSi7Mg0.3 Alloy by Using Squeeze Casting Technology</i>
Radka Podprocká	Žilinská univerzita v Žiline	<i>Účinok mangánu pri eliminácii nepriaznivého vplyvu intermetalických fáz s rôznou úrovňou železa</i>
Filip Průša	VŠCHT v Praze	<i>Vysoce pevné slitiny Ti připravené intenzivní plastickou deformací</i>
Ondřej Řídký	TU v Liberci	<i>Vliv odplynění taveniny pomocí probublání taveniny inertním plynem na únavové vlastnosti slitiny AlSi9Cu3 – Chování slitiny AlSi9Cu3 lité tlakově při cyklickém zatěžování s počtem cyklů vyšší než 10 na 9</i>
Pavel Salvetr	VŠCHT v Praze	<i>Ovlivnění reakčního mechanismu a možnosti snížení obsahu fáze Ti2Ni ve slitinách Ni-Ti</i>
Augustín Sládek	Žilinská univerzita v Žiline	<i>Nové spôsoby technologickej prípravy výroby presných odliatok v leteckom priemysle</i>
Jiří Sobotka	TU v Liberci	<i>Únavové vlastnosti slitiny hliníku AW-5182 v závislosti na deformaci</i>
Pavel Solfronk	TU v Liberci	<i>Vliv tepelného zpracování na změnu mechanických vlastností slitiny EN AW 6082i</i>
Alexandra Šenková	VŠCHT v Praze	<i>Slitiny s vysokou entropií na bázi systému Fe-Co-Cr-Ni</i>
Jan Šerák	VŠCHT v Praze	<i>Dispersion of Properties of Commercial Aluminium Alloys within Their Material Standards</i>
Andrea Školáková	VŠCHT v Praze	<i>Vznik fází v systému Ti-Al</i>
František Špalek	VŠB TU Ostrava	<i>Porovnání řezání AL pěny a celistvého Al technologií WEDM</i>

Václav Švorčík	VŠCHT v Praze	<i>Příprava a studium kovových nanovrstev</i>
Miroslava Ťavodová	TU vo Zvolene	<i>Implementácia vysokorychlostnej kamery pri skúške tlakom vidlice motocykla vyrobenej z hliníkovej zliatiny AlSi7Mn0,3</i>
Petr Valášek	ČZU v Praze	<i>Tensile strength of Al particles/sisal fibres hybrid composite with epoxy matrix</i>
Petr Vlas	IDEAL-Trade Service spol.s.r.o.	<i>Elektrolytické barvení</i>
Dalibor Vojtěch	VŠCHT v Praze	<i>Vlastnosti slitiny AlSi10Mg vyrobené gravitačním litím, technologií rheocasting a technologií 3D tisku</i>

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