



INTERNATIONAL SUMMER SCHOOL 2020

# CirCOOL 3.0 - The Life Cycle of Polymers

6th - 17th July 2020



MIRO – Montanuniversität International Relations Office  
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**MUL is a global center of excellence in our core disciplines:**

- Mineral resource and processing
- Metallurgy high performance materials
- Process and production engineering
- Environmental technology and recycling

**These are complemented by the following fields of research:**

- Energy technology and resource management
- Safety engineering and risk management
- Mathematics, natural sciences, engineering and economics

## **WHO ARE WE?**

As a 178 year old technical university with a unique profile, Montanuniversität Leoben (MUL) claims a special position in the Austrian as well as in the international academic landscape. The research and education profile is set along the value life cycle of products ranging from the extraction of raw materials, to processing, production processes, product design, product distribution and the recycling of the end of life products in order to reintroduce them into the value life cycle as secondary raw materials.

## **STUDY PROGRAMS**

All study programs and the university philosophy is set along this life cycle. The necessity of a new understanding of raw materials in a wholesome concept has become unnegotiable in today's world and is thus a central thought in research and education done at Montanuniversität. Inside Austria the study programs with their specific focus offered can only be pursued in Leoben. As a result, Montanuniversität graduates have an outstandingly good position on the job market.

## **ACADEMIC EXCELLENCE**

For many years, the university's academic excellence and popularity have been documented by a number of ranking surveys (e.g. FOR-MAT magazine, Universum Talent Research, Tendence Graduate Barometer). In 2017 and 2018 Montanuniversität was ranked one of the best universities in various engineering categories by the Shanghai Ranking's Global Ranking of Academic Subjects.

# CirCOOL - MONTANUNIVERSITÄT'S INTERNATIONAL SUMMER SCHOOL

CirCOOL is MUL's innovative & interdisciplinary international summer school program that successfully premiered in July 2018 and went into its second round in 2019 – again with outstanding feedback. In 2020 CirCOOL will take place for the third time in a revised form. This year the CirCOOL will focus on one specific field within the circular economy: the production, processing and recycling of polymers.

The CirCOOL program intends to enable students to see the bigger scope of their specific educational field and what it can contribute to the whole material circle. This approach strongly contributes to the de-isolating of the various fields of expertise needed to implement the material loop. CirCOOL is arranged in a modular structure which mirrors the various major steps of the value life cycle - this year especially focusing on the life cycle of polymers. Content seminars will be completed by at least one major field trip to relevant industry in order to show the practical applicability of the material flow in the industry and economy.



Montanuniversität considers its central future aim to establish sustainability in its value-added cycle, from raw materials to the finished product, in the disposal of the product and its recycling and reuse as secondary material.

# LEOBEN - A TOWN FULL OF OPPORTUNITIES

Leoben is a city of culture, a university city, a city of commerce, a hub of upper Styria, the second largest city in Styria and the home of the headquarters of leading multinational companies. Leoben is also known as the "Gateway to the Styrian Iron Road". A walk through the old town feels like a journey through the centuries. The city has many green parks, which invite you to take a walk and spend some time. Just a few ideas for leisure activities in and around Leoben...



## LEOBEN FACTS:

- 25.000 inhabitants
- 4.000 students
- Industrial center
- 2nd biggest city in Styria



...discovering Europe—Austria is in the heart of Europe!

...hiking and other outdoor activities in Austria's beautiful nature

...travelling within Austria: Excellent train access to Vienna, Graz & Salzburg

...getting to know Austria's culture: Visiting the old town Leoben, galleries & concerts

...shopping in the historical town centre or the shopping mall Leoben

...having fun at cultural events, festivals, in parks, bars and garden restaurants

...enjoying wellness and the exquisite local cuisine

# GENERAL INFORMATION ABOUT CirCOOL 2020

<b>TOPIC</b>	<b>ENGLISH LEVEL</b>
The Life Cycle of Polymers - the production, processing and recycling of polymers	Minimum B2 - proof of some sort is required
<b>LOCATION</b>	<b>NUMBER OF PARTICIPANTS</b>
Montanuniversitaet Leoben, industry/leisure fieldtrips	max. 30 - if not agreed upon differently max. 3 students per university - the international offices of students' HOME university are asked to make a selection
<b>DATE</b>	<b>HOUSING</b>
6th - 17th July 2020 - arrival: 6th July - 1st week: 7th - 11th July - 2nd week: 13th - 16th July - departure: 16th July after 2 pm or 17th July until 11 am	Single bed room in shared apartment with kitchen and bathroom in our exquisite guest house Mineroom ( <a href="http://www.housing.oead.at">www.housing.oead.at</a> - Leoben)
<b>APPLICATION DEADLINE</b>	<b>BOARD</b>
30th April 2020, 12pm MET (15% early bird discount for applications submitted until 29th February 2020, 12pm MET)	Lunch included on course days in Leoben
<b>WORK LOAD</b>	<b>TOTAL COSTS</b>
4 ECTS	€ 960 participation fee (15% early bird discount for applications submitted until 29th February 2020 = participation fee € 816) - money is due in cash on the first day of the program, which is Tuesday 7 July 2020
<b>TARGET GROUP</b>	
BSc students who have completed min. 90 ECTS of their studies, MSc & PhD students	



# GENERAL INFORMATION ABOUT CirCOOL 2020

## ACADEMIC FIELDS (always in relation with the life cycle of polymers)

- Applied Geoscience
- Petroleum Engineering
- Chemistry of Polymer Materials
- Processing of Composites
- Waste Processing Technology and Waste Management
- Process Technology and Industrial Environmental Protection

## FIELD TRIPS

- OMV -Reoil Project (to be confirmed)

## LEASURE ACTIVITIES INCLUDED

- Getting to know the University Town - historical city tour in Leoben
- Saturday in Graz - Visit Austria's second biggest city and Styrias capital
- Afternoon in Vienna - Visit Austria's capital and cultural hotspot (to be confirmed)

**APPLICATION DEADLINE: 30th April 2020, 12pm MET**

15% early bird discount can only be approved for complete applications submitted until the 29th February 2020, 12pm MET



# REQUIREMENTS AND APPLICATION DOCUMENTS

## APPLICATION REQUIREMENTS:

- Participants must be students of relevant technical/scientific field
- BSc students - min. 90 ECTS completed
- English level of minimum B2 (prove required)
- Application documents submitted until deadline  
(15% early bird discount for complete applications submitted until 29th February)

## APPLICATION DOCUMENTS

- filled out application form\*\*
- Master Data Sheet (Stammdatenblatt)\*\*
- Confirmation of enrollment at your home university (in English or German)
- Proof of English level B2 - e.g. school or course certificate, TOEFL, IELTS and similar kinds of confirmation
- Letter of Motivation (in English) - min. 1/2 page, max. 1 page  
Please try to cover the following questions:
  - Who are you? (personal description: name, interests, ...)
  - How is the CirCOOL program related to your field of studies?
  - Why do you want to attend the CirCOOL program?
  - How can you benefit in your future from participating in the CirCOOL program (personally, academically and/or professionally)?
- PhD students only (in English): Description about your field of research/thesis excerpt - min. 1/2 page, max. 1 page

\*\* Application form & Master Data Sheet can be downloaded from our website: [international.unileoben.ac.at](http://international.unileoben.ac.at)



# APPLICATION PROCESS AND FURTHER INFORMATION

## APPLICATION PROCESS:

All applications must be send in ONE e-mail with subject "Application for CirCOOL 2020" to [anja.zarfl@unileoben.ac.at](mailto:anja.zarfl@unileoben.ac.at) and [international@unileoben.ac.at](mailto:international@unileoben.ac.at) in copy

The participation fee is due in EURO and in cash on the first day of the program (Tue, 7th July, 2020)!

## ACCEPTANCE

- BSc and MSc students must prepare a presentation (ca. 10 min) about their academic and/or professional interests and future goals.
- PhD students must prepare a presentation (ca. 20 min) about their research (thesis), their academic and/or professional interest and future goals.
- The presentation shall be given during the CirCOOL program
- Further instructions will be given to the accepted participants

## CEEPUS SCHOLARSHIP

A CEEPUS scholarship of € 525,- for students of the following universities is possible: AGH Krakow, University of Zagreb, University of Belgrade, University of Kosice, University of Miskolc





# CONTACT:

**Miro** - Montanuniversität International Relations Office

 Summer School Coordinator: Anja Zarfl

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*See you in Leoben!*

