

Critical Minerals and Metals for New Energy

27 MAY 2021, 14:00-17:00
Delft // the Netherlands

Mijnbouwstraat 120



1912-2021

A joined CiTG & KNGMG symposium
online event with live streaming
registration at KNGMG.NL

Announcement

The event is live streamed on YouTube; Link has been sent to all registered participants.

You are allowed to share this link.

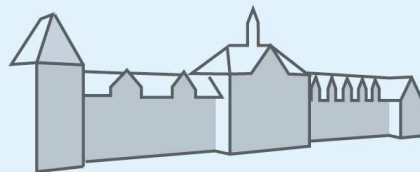
1. If you have a google or YouTube account and login you can ask questions in the chat of the live stream.
2. Alternatively you can use the MS Teams link for questions. Do note that there is no live feed on MS Teams.

Both chats will be monitored

Please mute your microphone

Time		Speaker	Affiliation
14.00	Welcome	Bob Hoogendoorn	President KNGMG
14.01	Opening and introduction	Evert Slob	Chair of the Career Development Committee Civil Engineering and Geosciences, TU Delft
14.11	Award Ceremony. Presentation of honorary membership of the KNGMG to Frederique van Schijndel.	Denise Maljers	Research Manager Geomodelling TNO, Editor in chief of the Geo.Brief
14.20	A short history of the Mining and Geological Museum of Delft	Michael van der Meer	Director Science Center TU Delft
14.45	First run of the documentary 'Mijnbouwstraat 120'.	Lucia van Geuns	Former president KNGMG
15.10	Short break		
15.20	Mining's Role in the Transition to a Clean Energy Future	Mike Buxton	Chair of the section resource engineering, TU Delft
15.45	Securing Critical Materials for Critical Sectors	Irina Patrahau	Researcher at The Hague Center for Strategic Studies (HCSS)
16.15	Panel discussion		
	The Future of Mining Engineering in the Netherlands	Timo Heimovaara	Chair of the Department of Applied Earth Sciences TUD
		Ton Bastein	Senior researcher critical raw materials at TNO
		Georgette Boele	Senior analyst ABNAMRO
17.00	Closure	Bob Hoogendoorn	President KNGMG

KNGMG
voor Aardwetenschappers



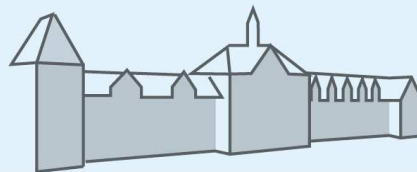
TU Delft
Delft University of Technology

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Panel discussion

The Future of Mining Engineering in the Netherlands

- **Georgette Boele** is a Currency and Precious Metals Strategist at ABN AMRO Group Economics. She specialised in precious stones. She holds a various accreditations including Diamond Graduate Diploma of the International Gemological Institute. She is the first author of the recently published report *“Kritische metalen – Het pad naar vergroening... zal niet eenvoudig zijn”*
- **Irina Patrahau** – Strategic Analyst at HCSS
- **Timo Heimovaara** is professor Geo-Environmental Engineering at the TUDelft. Furthermore he currently holds the chair of the department of Applied Earth Sciences, therefore responsible for the development of the educational curriculum at the department. *“Zero waste and emission free mining requires a profoundly different mindset from future mining engineers. Training the future engineers requires integration of geo-, hydrological, environmental, bioengineering sciences among many more”*



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Panel discussion

The Future of Mining Engineering in the Netherlands

1. Technical capacity building in The Netherlands is essential for a better understanding of the critical raw materials industries
2. Future scarcity of CRM will slow down the Dutch energy transition
3. The Dutch government should take on a leading role in developing a national strategic agenda for securing critical materials, focusing on the knowledge development of CRM

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