

Conference Venue

RocDyn-3 will be held in building Gamle elektro in the campus Gløshaugen of NTNU, Trondheim, Norway. Trondheim is located in the middle of Norway and can be reached by air directly from Oslo, Copenhagen and Amsterdam.

Organisation Committee

Charlie C. LI (co-chair), *NTNU, Norway*
Kristoffer Vik-Langlie (co-chair), *NTNU, Norway*
Zongxian ZHANG (co-chair), *Univ. of Oulu, Finland*
Xing LI, *Monash Univ., Australia*
Wenche W. FINSETH, *NTNU, Norway*
Anne EVJEMO, *NTNU, Norway*
Randi KOJEN, *NTNU, Norway*
Knut SOLEM, *NTNU, Norway*
Gunnar VISTNES, *NTNU, Norway*

Aina MYRVOLD, *NTNU, Norway*
Kaiwen XIA, *Toronto Univ., Canada*
Jianchun LI, *Inst. of Rock & Soil Mech., China*
Diyuan LI, *Central South Univ., China*
Qianbing ZHANG, *Monash Univ., Australia*
Liyuan CHI, *Univ. Centre in Svalbard, Norway*
Zhiye ZHAO, *Nanyang Tech. Univ., Singapore*
Zilong ZHOU, *Central South Univ., China*
Wenge Qiu, *Southwest Jiaotong Univ., China*

Scientific Committee

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Jian ZHAO (co-chair), *Australia*
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Giovanni BARLA, *Italy*
David BECK, *Australia*
Ezio CADONI, *Switzerland*
Ming CAI, *Canada*
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Jian DENG, *Canada*
Feng DAI, *China*
Phil DIGHT, *Australia*
Conrad FELICE, *USA*
Xia-Ting FENG, *China*
William FOURNEY, *USA*
R.K. GOEL, *India*
Manchao HE, *China*
Bruce HEBBLEWHITE, *Australia*
Mikko HOKKA, *Finland*
Shi HUAN, *China*
Yujing JIANG, *Japan*
William JOUGHIN, *South Africa*
Pascal-Alexandre KANE, *Norway*
Petr KONICEK, *Czech Republic*
Heinz KONIETZKY, *Germany*
Diyuan LI, *China*
Haibo LI, *China*
Jianchun LI, *China*

Xibing LI, *China*
Lars MALMGREN, *Sweden*
Peter MIKULA, *Australia*
Bjørn NILSEN, *Norway*
Ugur Ozbay, *USA*
Krishna PANTHI, *Norway*
Frederic PELLET, *France*
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Mikael RINNE, *Finland*
Mahdi SAADATI, *Sweden*
Timo SAKSALA, *Finland*
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Thomas R STACEY, *South Africa*
Chun'An TANG, *China*
Wenge Qiu, *China*
Ernesto VILLAESCUSA, *Australia*
Lili WANG, *China*
Qizhi WANG, *China*
Kaiwen XIA, *Canada*
Mike YAO, *Canada*
Paul YOUNG, *Canada*
Qianbing ZHANG, *Australia*
Zongxian ZHANG, *Finland*
Zhiye ZHAO, *Singapore*
Yingxin ZHOU, *Singapore*
Zilong ZHOU, *China*
Jianbo ZHU, *Hong Kong*
Wancheng ZHU, *China*

Bulletin 3



<http://www.rocdyn.org>

Third International Conference on Rock Dynamics & Applications (*RocDyn-3*) “Experiments, theories and applications”

Trondheim, Norway
25-29 June 2018

Organisers



The Norwegian University of Science and Technology (NTNU), Norway



The University of Oulu, Finland

Co-organisers



Monash University, Australia



CAS Institute of Rock and Soil
Mechanics, China



Nanyang Technological University,
Singapore



University of Toronto, Canada



Central South University, China



Southeast University, China



Southwest Jiaotong University, China



ISRM Commission on Rock Dynamics



Invitation

The Third International Conference on Rock Dynamics and Applications (RocDyn-3) will be held on 25-29 June 2018 in Trondheim, Norway. It is a specialized conference supported by the International Society for Rock Mechanics (ISRM) and the Norwegian National Group of Rock Mechanics (NBG).

The conference received 99 full papers among which 38 papers are on rockburst, dynamics rock support and seismic monitoring, 32 papers on dynamic testing and theoretical and numerical studies, 18 papers on earthquake-related topics and rock blasting, and 11 papers on other relevant topics. The topics of the papers reflect the recent developments in experiments and theories of dynamic rock testing, rockburst, seismic management, dynamic rock support, blasting, earthquake damage, etc. In addition to technical sessions for presentation of the papers, two forums will be organised for open discussions on (1) rockburst and dynamic rock support and (2) dynamic testing of rock and blasting.

The members of the Scientific Committee and a number of invited reviewers made tremendous efforts to review the submitted abstracts and papers in the past 6 months. We believe that the quality of the papers is high owing to the efforts of both the authors and the reviewers. We look forward to meeting you all in Trondheim soon. You'll meet your old and new friends and strengthen your network in the circle. Welcome!

Chairs:

Dr. Charlie C. Li Mr. Kristoffer Vik-Langlie Dr. Zongxian Zhang
On behalf of RocDyn-3 Organizing Committee

Conference Themes

- T1:** Laboratory dynamic testing of rock
- T2:** Theoretical study and numerical modelling
- T3:** Rockburst, dynamic loading and seismicity in underground excavations
- T4:** Dynamic rock support
- T5:** Seismic monitoring and management,
- T6:** Blasting and explosions
- T7:** Earthquake-related structure damage and landslides.
- T8:** Other topics

Forum 1: Rockburst and Dynamic Rock Support

Forum 2: Dynamic Testing of Rock and Blasting

Key dates

Deadline for early-bird registration	15 April, 2018
Deadline for sponsorship	15 April, 2018
Conference reception	19:00, 25 June, 2018
Conference	26 – 27 June, 2018
Post-conference excursions	28 – 29 June, 2018

Keynote Speakers



Mr. Brad SIMSER,

Principal ground control engineer, Glencore, Canada
Speech Title: Rock Burst Observations from Hard Rock Mines:
Failures, Successes, Lessons Learned



Dr. Xibing LI

Professor, Central South University, China
Speech Title: Dynamic and coupled static-dynamic loading
theory and method in deep hard rock mining



Dr. Finn OUCHTERLONY

Professor, University of Leoben, Austria
Speech Title: A review of the development of better
prediction equations for blast fragmentation



Dr. Chun'An TANG

Professor, Dalian University of Technology, China
Speech Title: Spalling in extreme ground motion and evidence
from the 2008 Wenchuan earthquake

Conference timetable

Year 2018	25 June	26 June	27 June	28-29 June
Morning		Opening	Keynote speeches	Excursions:
		Keynote speeches	Technical sessions	1) Two days to Kristiansund
Afternoon		Technical sessions	Forum 2	2) A half day in Trondheim
	Registration	Forum 1	Closing	
Evening	Reception	Conf dinner		