

中国铁道学会

学秘函〔2018〕29号

中国铁道学会关于组织国际重载协会 2019年技术专题研讨会征文的通知

各分支机构，北京铁道学会、山西省铁道学会、内蒙古自治区铁道学会、河南省铁道学会：

国际重载协会2019年技术专题研讨会定于2019年6月8-12日在挪威纳尔维克召开，主题为“重载运输4.0--实现性能等级的突破”。研讨会由国际重载协会和北欧重载协会共同主办。会议组委会已发出征文通知（会议网址：<https://ih-ha2019.com/>），论文摘要提交截止日期为2018年8月1日。中国铁道学会作为国际重载协会会员和理事单位，现组织相关专家撰写大会论文。要求如下：

1. 大会交流语言为英语，请组织有英语能力并能独立参加国际会议的专家按照格式要求撰写论文摘要。
 2. 提交的论文不得涉密，由所在单位把关。
 3. 论文作者可将论文摘要直接提交大会网页 <https://ih-ha2019.com/>，并抄送中国铁道学会（电子邮箱：tdxh930@163.com）。
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4. 如有问题可与中国铁道学会学术交流部联系（联系人：康爽，电话：010-51841691）。

附件：国际重载协会 2019 年技术专题研讨会征文通知



附件

国际重载协会 2019 年技术专题研讨会征文通知

一、会议时间：2019 年 6 月 8-12 日

二、会议地点：挪威纳尔维克

三、会议主题：重载运输 4.0—实现性能等级的突破

四、联系方式：

网址：<https://ihha2019.com/>

电子邮件：secretariat@ihha2019.com

五、征文范围

1. 车辆轨道系统

- 轮轨关系
- 轮轨界面分析、优化和管理
- 行车安全和脱轨预防
- 列车状态监测
- 大数据分析及预测
- 重载系统自动化技术
- 车辆/轨道系统及优化

2. 轨道

- 轨道养护
- 轨道组件性能
- 纵向应力

- 钢轨焊接
- 特殊轨道
- 轨道几何结构
- 在既有线上提高轴重
- 建设和维修标准
- 新材料、重新设计材料

3. 桥梁和隧道

- 桥梁管理系统
- 桥梁修复及加固
- 桥梁荷载
- 桥梁结构安全监测
- 状态和结构性能评估
- 隧道运营、管理和维修
- 新设计、重新设计材料、新材料

4. 运营

- 网络容量和运营效率
- 长距离重载运输
- 列车控制和性能优化
- 大轴重经济研究
- 信号传输
- 电气化技术
- 安全问题
- 服务可靠性

- 新设计、重新设计材料、新材料

5. 车辆

- 车轮、车轴及轴承
- 货车设计和维护
- 制动系统
- 基于监测的货车维护
- 新设计、重新设计材料、新材料

6. 极端情况下的重载运输

- 炎热和严寒环境
- 气候变化造成的影响

7. 人为因素

- 从业人员技能、培训、安全因素对重载 4.0 的影响

六、论文摘要提交要求

1. 摘要需用英文撰写，选择发言交流或张贴交流任一类型，通过大会网站 <https://ihha2019.com/> 在线提交。论文须为作者原创，且之前未曾发表。

2. 时间要求

摘要提交截止时间	2018 年 8 月 1 日
通知摘要录用时间	2018 年 11 月 1 日
论文全文提交截止时间	2019 年 3 月 1 日
注册开始时间	2018 年 7 月 1 日
早鸟票截止时间	2019 年 4 月 1 日

NARVIK

08. - 12. JUNE 2019



Heavy Haul 4.0 Achieving Breakthrough Performance Levels

Short welcome

The International Heavy Haul Association and Nordic Heavy Haul in Partnership with Bane NOR and Trafikverket, will be hosting the STS Conference from 8 to 12 of June in Narvik; Norway at the UIT The Arctic University Campus Narvik. www.ihha2019.com

The International Heavy Haul Association Conference are leading event of discussing heavy haul issues within Rail Freight and have earlier successfully been organized in Kiruna, Calgary, New Delhi, Perth and Cape Town

The conference will include presentation of technical papers in research and development areas such as rolling stock, railway infrastructure and operations. A two day technical workshop will be held before the conference and a one day technical tour after the conference.

Call for Abstracts

The theme will encourage delegates to present papers on breakthrough solutions that will strengthen the

Welcome to Narvik/Norway

Narvik is situated between steep mountains and narrow fjords. With amazing arctic nature as a back drop, the town offers a broad spectrum of activities and experiences both summer and winter.

The combination of spectacular arctic nature with dramatic second world war history and the Ofoten railway makes the town a unique destination Narvik is in the North of Norway close to the Sweden and the LKAB Iron ore mining in Kiruna and Gällivare.

heavy haul competitive edge, with a specific focus on reducing the logistics costs, improving operations efficiency, providing new railway capacity cost-effectively and improving safety.

The scope of solutions presented will also cover operations in extreme weather conditions. Central to the discussions at this conference is the impact of the 4th industrial revolution on railway personnel. The conference will specifically focus on research and innovations, best practices in areas of operations, maintenance, construction, new material, new design and re-design of existing systems.

'The 4th industrial revolution is here, the future is now!'

On behalf of the conference organising committee, we extend a warm invitation to you and your associates to participate in this forthcoming International Heavy Haul STS Conference.

<https://ihha2019.com/submissions/>

Connectivity/Accommodation

To reach Narvik, the easiest way is to fly to Oslo (OSL), Norway and catch a connecting flight to Harstad/Narvik, Evenes Airport (EVE). Both SAS and Norwegian have several daily flights from Oslo (OSL) to Harstad/Narvik, Evenes Airport (EVE). Narvik offers a range of hotels. Congress will offer accommodation at our four hotels. All hotels are walking distance from the venue.



IMPORTANT DATES

Abstract submission opens	Mars	1st 2018
Abstract submission close	August	1st 2018
Registration opens	July	1st 2018
Notice of acceptance	November	1st 2018
Final paper submission deadline	Mars	1st 2019
Early bird cut off	April	1st 2019

CONGRESS SECRETARIAT

All questions regarding the conference can be addressed to:

Email:
secretariat@ihha2019.com
www.ihha2019.com

CALL FOR PAPERS / CATEGORIES

“Heavy Haul 4.0 – Achieving Breakthrough Performance Levels”

Technologies are Transforming Heavy Haul maintenance and operations. Can new possibilities and innovations be inspired from the Industry 4.0 concept?

Vehicle Track Systems

- Vehicle/track Interaction
- Wheel/rail interface analysis, optimization and management
- Safety and derailment prevention
- Condition monitoring
- Big data analytics with prognostics
- Automation in HH systems
- Vehicle/Track Systems and optimization

Track

- Track maintenance
- Track component performance
- Longitudinal stresses in rails
- Rail welding
- Special track work
- Track geometry
- Increasing axle loads on existing infrastructure
- Construction and maintenance standards
- New, re-design, new materials

Bridges & Tunnels

- Bridge management systems
- Bridge rehabilitation and strengthening
- Bridge loading
- Structural Health monitoring of bridges
- Condition and structural performance assessment
- Tunnel operations, management and maintenance
- New design, re-design, new materials

Operations

- Network Capacity and Operational Efficiency
- Long haul trains
- Train control and capacity optimization
- Heavy Axle Loading (HAL) Economics
- Signalling
- Electrification technology
- Security and Safety
- Service Reliability
- New design, re-design, new materials

Rolling Stock

- Wheels, axles & bearings
- Wagon design and maintenance
- Brake systems
- Detector-based wagon maintenance
- New design, re-design, new materials

Heavy Haul under Extreme Conditions

- Hot and cold environment

•Impact from climate changes

Human factors

•Skills, training and safety impact in relation to 4.0

Prior Publication. Only original contributions to the literature are accepted for publication. In most cases, this means that a paper should incorporate substantial new information not previously published. Under certain circumstances, reviews or collations or analyses of information previously published in scattered form may be acceptable.

All papers submitted or solicited are subject to review. Comments and evaluations of reviewers are confidential.

Receipt of a paper does not constitute a commitment to its acceptance for presentation or publication. All papers submitted and accepted are subject to editing, and the material is not returned to the authors. Papers submitted to and accepted by the IHHA or its host organization becomes the property of the IHHA. A rejected paper will be returned to the author and remain the property of the author. It should be recognized that any paper submitted to the IHHA or its host organization is generally reviewed by several persons on behalf of the IHHA, and the IHHA will take reasonable precautions to preserve the property rights of an author of a paper not accepted by the IHHA.

Appearance in Person. The author must personally present the accepted paper at the prescribed technical session; otherwise the paper will not be presented for floor discussions or publication.

IHHA Responsibility. Statements and opinions advanced in papers are understood to be individual expressions of the authors and not of the IHHA.

Author's Responsibility. Responsibility for the content of accepted papers rests with the author and not with the IHHA or its host organization. Data presented and conclusions developed by the author are for information only and are not intended for use without independent substantiating investigation on the part of the potential user.

Description of an IHHA Paper. An IHHA paper should be clear, concise and complete with supporting data and assumptions plainly identified (including their uncertainty with precise logic in relevance to practice described). The actual accomplishment of the work shall be plainly stated and honestly appraised.

Content of Paper. The order of contents of a paper is as follows: paper title, author's name and affiliations, abstract, nomenclature, body of paper including figures and tables, appendixes, acknowledgements, references.

Title. The title of the paper should be concise and definitive with key words appropriate for retrieval purposes. It should not exceed 10 words. A subtitle may be added if necessary.

Authors' Name and Affiliation. It is IHHA policy that all those who have participated significantly in the technical aspects of the paper should be recognized as co-authors or cited in the Acknowledgements. In the case of a paper with more than one author, correspondence concerning the paper will be sent to the first author listed, unless instructions to the contrary are given.

Classification of abstract: Please classify and indicate in what area the abstract are targeting to focus on. For example; Rolling Stock - Wagon design and maintenance, Operations - Train control and capacity optimization etc.

Summary. A short summary (50 to 100 words) should head the paper. Its purposes are:

- (1) to give a clear indication of the objective, scope and results of the paper so that readers may determine whether the full text will be of interest to them, and
- (2) to provide key words and phrases for indexing, abstracting and retrieval purposes.

Length. An IHHA paper should generally not exceed 8 camera-ready pages. Invited papers should not exceed 10 pages.

About the papers: The author must transfer the author's rights for the paper to the IHHA and the institution hosting the Conference on a special form provided for this purpose. Detailed information on the papers is given in the Author's Guide for Preparation of Papers, which is available on the website: www.ihha.net or www.ihha2019.com

Title of technical paper typed in small caps

A.B. Author & C. Author

Affiliation1, City1, Country1

D.E. Author

Affiliation2, City2, Country2

Classification: *Please indicate subject and sub-subject area*

ABSTRACT: This template and guidelines are provided to authors to assist with the formatting of the Technical Paper to achieve the requirements of the proceedings of the International Heavy Haul STS Conference to be hosted in Narvik, Norway June 2019. Please use the formatting of this document without change and refer to it for full details on the preparation of your Technical Paper. This section, the Abstract of the Technical Paper, should be self-contained and explicit, setting out the ground to be covered and the aims of the Technical Paper. The abstract should contain, as a minimum, the context, objectives, method, results and conclusions of the work. It should further outline a scientific contribution related to the theme of the conference. References and non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself. The abstract should also not contain any brand/product/company names and should be free of any commercial advertising. The suggested length for the Abstract should be between 100 and 200 words.

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