CM2025 Final Program



CM2025 - Sophia University

13th International Conference on Contact Mechanics and Wear of Rail/Wheel Systems

Sophia University, Tokyo, Japan 22 – 26 September 2025

Venue : Sophia University, Yotsuya Campus 7 – 1 Kioi-cho, Chiyoda-ku, Tokyo, 102-8554

Access and Campus Map → (Tap or Scan to see the venue location)



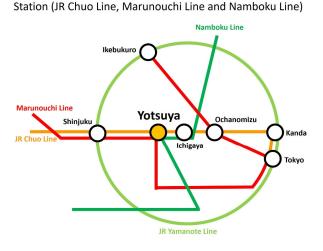
↓Route from your location↓ (Tap or Scan the QR code below)

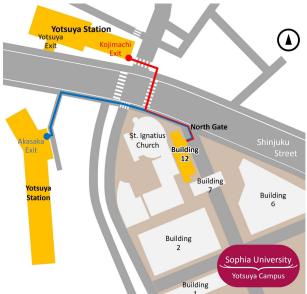


University Website

Sophia University Yotsuya Campus

7-1 Kioicho, Chiyoda-ku Tokyo, 102-8554
5 min. walk from Kojimachi Exit or Akasaka Exit of Yotsuya





MONDAY 22 SEPTEMBER

Time schedule (GMT+09:00)

9:00

0.00

15:00

16:00

17:00

18:00

ICRI Workshop

15:00-17:00 CM2025 Registration Venue: Building 12, Ground Floor

17:30-19:30 Welcome Party

Final Program

	TUESDAY 23 SEPTEMBER							
Time Schedule (GMT+09:00)								
8:15-	Registration (Venue: Building 12, Ground Floor)							
9:00-9:30 Opening Ceremony (Venue: Building 6, Ground Floor)								
9:30-10:20	Special Lecture by Mr. Katsumi Ise (President &CEO, Totetsu Kogyo Co., Ltd.)							
10:20 - 10:30	Group Photo							

Transition to Oral Session (OS) rooms (Venue: Building 12)

		ROOM	I A		ROOM	I B		ROOM	1 C
	Ø	OS1.1a-1	U00027	q	OS1.1b-1	U00127	O	OS1.1c-1	U00053
11:00-12:20	<u> </u>	OS1.1a-2	U00043	= =	OS1.1b-2	U00041	<u>+</u> .	OS1.1c-2	U00146
11.00-12.20	SO	OS1.1a-3	U00047	SO	OS1.1b-3	U00042	SO	OS1.1c-3	U00092
	O	OS1.1a-4	U00165	O	OS1.1b-4	U00012	O	OS1.1c-4	U00103
12:20-13:00				L	₋unch B	reak			
		OS1.2a-1	U00064		OS1.2b-1	U00019		OS1.2c-1	U00105
	OS 1.2a	OS1.2a-2	U00099	1.2b	OS1.2b-2	U00089	.2c	OS1.2c-2	U00157
13:00-14:40		OS1.2a-3	U00149		OS1.2b-3	U00130	<u>√</u>	OS1.2c-3	U00109
		OS1.2a-4	U00181	SO	OS1.2b-4	U00124	SO	OS1.2c-4	U00014
		OS1.2a-5	U00104		OS1.2b-5	U00169		OS1.2c-5	U00112
14:40-15:10				(Coffee b	reak			
		OS1.3a-1	U00008		OS1.3b-1	U00022		OS1.3c-1	U00036
	3a	OS1.3a-2	U00045	3b	OS1.3b-2	U00029	3c	OS1.3c-2	U00161
15:10-16:50	<u>←</u>	OS1.3a-3	U00075	←.	OS1.3b-3	U00154		OS1.3c-3	U00119
	OS	OS1.3a-4	U00079	SO	OS1.3b-4	U00195	OS	OS1.3c-4	U00201
		OS1.3a-5	U00193		OS1.3b-5	U00200		OS1.3c-5	U00202

Final Program

WEDNESDAY 24 SEPTEMBER									
Time Schedule (GMT+09:00)									
8:15-		Re	gistratio	n (<i>Venu</i>	e: Buildii	ng 12, Gr	ound Fl	oor)	
9:00-9:50	K	Keynote Lecture 1 by Prof. Anders Ekberg, Chalmers University of Technology, Sweden Contact mechanics and wear in train and rail asset management Venue: Building 12						len	
		ROOM A ROOM B ROOM C						С	
10:20-12:00	OS 2.1a	OS2.1a-1 OS2.1a-2 OS2.1a-3 OS2.1a-4 OS2.1a-5	U00003 U00090 U00023 U00033 U00082	OS 2.1b	OS2.1b-1 OS2.1b-2 OS2.1b-3 OS2.1b-4 OS2.1b-5	U00131 U00102 U00034 U00175 U00179	OS 2.1c	OS2.1c-1 OS2.1c-2 OS2.1c-3 OS2.1c-4 OS2.1c-5	U00010 U00017 U00164 U00184 U00035
12:00-12:40				Lı	unch Bre	eak			
12:40-14:00	OS 2.2a	OS2.2a-1 OS2.2a-2 OS2.2a-3 OS2.2a-4	U00009 U00132 U00018 U00185	OS 2.2b	OS2.2b-1 OS2.2b-2 OS2.2b-3 OS2.2b-4	U00068 U00084 U00153 U00021	0S 2.2c	OS2.2c-1 OS2.2c-2 OS2.2c-3	U00011 U00097 U00101
14:00-14:30				C	offee bre	eak			

Poster Sessions (Shotgun and Poster presentations)

	ROOM	A (Group A)	ROOM	/ B(Group B)				
Shotgun		PS.A-1		PS.B-1				
sessions	Part 1	~	Part 2	~				
14:30-15:10	<u></u>	PS.A-25		PS.B-27				
		-						
15:10-15:20		Transition to	poster	area				
		ROOM D						
15:20-16:30	Post	Poster presentations Part 1(Group A)						
16:40-17:50	Post	Poster presentations Part 2(Group B)						

18:30 ~

Banquet Venue: Arcadia Ichigaya (Fuji Hall)
4-2-25 Kudankita, Chiyoda-ku, Tokyo 102-0073, Japan
(About 2 minutes on foot from JR Ichigaya Station. About 15
minutes on foot from Sophia University)



Final Program

	THURSDAY 25 SEPTEMBER										
Time Schedule (GMT+09:00)											
8:15-		Re	gistratio	n(Venue	: Buildir	ıg 12, Gr	ound Flo	oor)			
9:00-9:50	Keynote Lecture 2 by Prof. Zili Li, Delft University of Technology, The Netherlands RCF Explained by Contact Mechanics in Statics and Dynamics Venue: Building 12										
	ROOM A ROOM B ROOM C								С		
10:20-12:00	OS 3.1a	OS3.1a-1 OS3.1a-2 OS3.1a-3 OS3.1a-4 OS3.1a-5	U00117 U00182 U00083 U00180 U00016	OS 3.1b	OS3.1b-1 OS3.1b-2 OS3.1b-3 OS3.1b-4 OS3.1b-5	U00136 U00015 U00166 U00062 U00007	OS 3.1c	OS3.1c-1 OS3.1c-2 OS3.1c-3 OS3.1c-4	U00125 U00113 U00143 U00006		
12:00-12:30				Lu	ınch Bre	eak					
12:30-14:10	OS 3.2a	OS3.2a-1 OS3.2a-2 OS3.2a-3 OS3.2a-4 OS3.2a-5	U00072 U00110 U00114 U00137 U00054	OS 3.2b	OS3.2b-1 OS3.2b-2 OS3.2b-3 OS3.2b-4 OS3.2b-5	U00056 U00066 U00145 U00120 U00126	OS 3.2c	OS3.2c-1 OS3.2c-2 OS3.2c-3 OS3.2c-4 OS3.2c-5	U00031 U00111 U00032 U00046 U00048		
14:10-14:40				Co	offee Bre	eak					
14:40-16:00	OS 3.3a	OS3.3a-1 OS3.3a-2 OS3.3a-3	U00118 U00030 U00039	OS 3.3b	OS3.3b-1 OS3.3b-2 OS3.3b-3 OS3.3b-4	U00160 U00199 U00028 U00067	OS 3.3c	OS3.3c-1 OS3.3c-2 OS3.3c-3	U00024 U00037 U00050		
16:15-17:00			Closin	g Cele	mony \	/enue: Bu	uilding 12	2			

List of Technical Visits

FRIDAY 26 SEPTEMBER

Time Schedule (GMT+09:00)

9:30-12:30 Technical Visits

General Notes:

All technical visits will conclude between 12:00 and 12:30. It is advisable to assume that you will return to central Tokyo (Tokyo Station area) by around 14:00. Large luggage is not permitted on any of the technical visits. Lunch is not included. Those planning to travel internationally on the same day are advised to take this schedule into careful consideration. A list of technical visits is provided below. The detailed meeting time and map will be provided once your technical visit assignment has been determined.

TV.1: JR East R&D Center in Omiya

This technical visit will take place at the Research and Development Center of East Japan Railway Company (JR East), located in Omiya, Saitama. The facility can be reached fromTokyo Station in approximately 45 minutes and serves as a key hub for research on rolling stock, maintenance technologies, and passenger service systems. Participants are kindly requested to meet at Tetsudō-Hakubutsukan Station. From there, they will walk to the research center. The visit will conclude on site. After the technical visit, participants who have spare time on the day may choose, at their own discretion, to visit the Railway Museum.

Website	https://www.jreast.co.jp/e/development/section/
Google Maps	https://www.google.com/maps/search/?api=1&query=35.924839,139.610785

TV.2: Tokyo Metro Training Center

The Tokyo Metro Training Center is one of the most advanced railway training facilities in Japan, offering highly realistic and comprehensive training environments for subway operations. Located in Shin-Kiba, about 30 minutes from Tokyo Station, the center provides training for subway operators, station staff, and track maintenance crews. It features driving simulators as well as facilities for emergency response and track-related training. Participants are kindly requested to meet at Shin-Kiba Station. From there, they will travel to the training center by a shuttle bus. The visit will conclude with a return by shuttle bus to Shin-Kiba Station.

Website	https://cm2025.jscmr.org/img/TMTC.pdf
Google Maps	https://maps.app.goo.gl/j5keqR679ewNvtqu6

TV.3: Railway Technical Research Institute (RTRI)

This technical visit will take place at the Railway Technical Research Institute (RTRI), Japan's leading center for railway research and innovation. Located in Kunitachi, Tokyo, the institute conducts advanced research in areas such as vehicle dynamics, contact mechanics, track systems, safety, and energy efficiency, contributing to the development of cutting-edge railway technologies. The departure point is Sophia University, from which participants will travel by bus to the site. The visit will conclude with a return by bus to Sophia University.

Website	https://www.rtri.or.jp/eng/
Google Maps	https://maps.app.goo.gl/jsQTdzhAeuQJwWgT8

TV.4: National Traffic Safety and Environment Laboratory(NTSEL)

This technical visit is scheduled to take place at the National Traffic Safety and Environment Laboratory (NTSEL), a national research institute specializing in traffic safety, vehicle regulations, and environmental impact assessment. NTSEL conducts research on vehicle safety standards, emissions testing, and advanced mobility systems. This research institute possesses Japan's only wheel—rail test rig capable of simulating sharp curve negotiation. Participants are kindly requested to meet at Mitaka Station, the nearest station to NTSEL. From there, they will travel to the laboratory by chartered bus. The visit will conclude with a return by bus to Mitaka Station.

Website	https://www.ntsel.go.jp/e/index.html
Google Maps	https://maps.app.goo.gl/3XnNdc5dtEgNaoAZA

Final List of Oral Session (OS) Presenters

The following list shows the final order and presentation time of the speakers. Paper IDs are kept here for the presenters' convenience, but they will be omitted in the printed program distributed at the Registration desk. The printed program will also list not only the presenters but their co-authors, and the Session IDs will correspond to the filenames of the full papers distributed online.

Time	os	OS title	Session ID	Paper ID	Paper Title	Presenter	Affiliation
Tue. 23		Polygonal	OS1.1a-1	U00027	EXPERIMENTAL STUDY ON RAILWAY WHEEL POLYGONAL WEAR: INFLUENCE OF WHEEL HARDNESS	Haohao Ding	Southwest Jiaotong University
11:00 - 12:20		wear 1		U00043	WHEEL HARDNESS MECHANISM OF POLYGONAL WEAR OF HEAVY-HAUL LOCOMOTIVE WHEELS CAUSED BY SELF-EXCITED VIBRATION	Huanyun Dai	Southwest Jiaotong University
	1.1a		OS1.1a-3	U00047	FORMATION MECHANISM OF HIGH-ORDER WHEEL POLYGONIZATION OF HIGH-SPEED	Yunguang Ye	Southwest Jiaotong University
				U00165	TRAINS IN CHINA INVESTIGATION ON THE MECHANISM OF WHEEL POLYGONISATION BASED ON	Xiaogang Liu	Wuhan University of Technology
		Contact		U00127	FRICTION INDUCED TORSIONAL VIBRATION APPLICABILITY OF STEADY STATE ROLLING CONTACT THEORIES ON HIGH-	Xin Zhao	Southwest Jiaotong University
		mechanics		U00041	FREQUENCY VEHICLE-TRACK DYNAMICS ANALYSES A FINITE ELEMENT ANALYSIS OF RAIL RATCHETING EFFECTS ON V-TRACK	Fang Ren	Delft University of Technology
	1.1b	and modelling		U00041	FLAME GPU AGENT BASED MODELLING FOR RAIL-WHEEL MATERIALS	David Fletcher	The University of Sheffield
			OS1.1b-4	U00012	FIELD TEST ON WHEEL FLATS DYNAMIC EFFECTS ON HIGH-SPEED TRAIN	Dong Xiaoqing	China Academy of Railway Sciences
		Damage and wear of brake	OS1.1c-1	U00053	NOVEL SMALL-SCALE TESTS TO STUDY THERMO-MECHANICAL DAMAGE IN TREAD- BRAKED RAILWAY WHEEL STEEL PAIRED WITH VARIOUS ORGANIC COMPOSITE BRAKE BLOCKS	Lorenzo Ghidini	Lucchini RS
	1.1c		OS1.1c-2	U00146	EXPERIMENTAL VALIDATION OF A NUMERICAL THERMAL MODEL FOR RAILWAY BRAKE BLOCKS WITH EXPERIMENTAL DATA OBTAINED ON A TWIN-DISC RIG	Rosario Pagano	Politecnico di Torino
			OS1.1c-3	U00092	PARTICLE EMISSIONS FROM FREIGHT TRAIN TREAD BRAKE AND DISC BRAKE SYSTEMS	Yezhe Lyu	Lund University
			OS1.1c-4	U00103	PARTICLE EMISSION CHARACTERISTICS OF VARIOUS BRAKE BLOCKS AND THEIR EFFECTS ON THE WHEEL FOR TREAD BRAKES	Ryo Ozaki	Railway Technical Research Institute
					ET 2010 ON THE MILESE FOR THE JOURNES		
Tue. 23 13:00 -		Rail lubrication and	OS1.2a-1	U00064	PREDICTION OF WHEEL/RAIL INTERFACE FRICTION IN CASE OF TOP-OF-RAIL FRICTION MANAGEMENT FOR OPERATIONAL SCENARIOS	Gerald Trummer	Virtual Vehicle Research GmbH
14:40		management	OS1.2a-2	U00099	DEVELOPMENT OF MONITORING TECHNOLOGY ON WHEEL FLANGE LUBRICATION CONDITION WITH PQ MONITORING BOGIE IN OPERATION	Takuto Ueda	Tokyo Metro Co., Ltd.
	1.2a		OS1.2a-3	U00149	MODELLING GREASE RETENTIVITY FOR INTELLIGENT LUBRICATION SYSTEM	Daniel Kvarda	Brno University of Technology
			OS1.2a-4	U00181	COMPREHENSIVE ASSESSMENT OF SOLID STICK FRICTION MODIFIERS IN WHEEL/RAIL CONTACT	Tomas Jordan	Brno University of Technology
			OS1.2a-5	U00104	DEVELOPMENT AND PERFORMANCE OF AN INTEGRATED FRICTION BLOCK FOR	Kazuyuki Handa	Railway Technical Research Institute
		Turnout and crossing 1		U00019	WHEEL FLANGE LUBRICATION UNDER IN-SERVICE CONDITIONS RESEARCH OF GAP IN THE FROG VIBRATION ABSORBER BASED ON MOPSO ALGORITHM	Jiaxin Lei	Southwest Jiaotong University
			OS1.2b-2	U00089	ANALYSIS OF WHEEL-TURNOUT CONTACT AND IMPACT NOISE WHEN THE HIGH- SPEED TRAIN PASSES THROUGH TURNOUT	Xinwen Yang	Tongji University
	1.2b		OS1.2b-3	U00130	STUDY ON THE DYNAMICS OF VEHICLE-TURNOUT COUPLING SYSTEM CONSIDERING HIGH-DIMENSIONAL STOCHASTIC DISTRIBUTION OF WHEEL TREAD WEAR AND RAIL LIGHT BAND DETERMINATION	Zheng Yan	Southwest Jiaotong University
			OS1.2b-4	U00124	EFFECT OF STRUCTURAL IRREGULARITY IN TURNOUTS ON WHEEL-RAIL CREEPAGE CALCULATION AND VEHICLE SWAYING	Jiayin Chen	Guangzhou Maritime University
			OS1.2b-5	U00169	A SCIENTIFIC APPROACH TO IMPROVE WHEEL-RAIL CONTACT PERFORMANCE IN TURNOUTS	Jerome Pun	Monash University
		Management	OS1.2c-1	U00105	MANAGEMENT OF WHEEL-RAIL DAMAGE IN A TIGHT METRO CURVE	Gianluca Megna	Università di Pisa
		of rail and infrastructure	OS1.2c-2	U00157	RESOURCE-EFFICIENT TRACK MAINTENANCE AND RENEWAL STRATEGIES VIA LOOK-UP TABLES	Jonathan Leung	Department of Engineering Mechanics
	1.2c		OS1.2c-3	U00109	SIMULATIONS AND FIELD MEASUREMENTS OF LONG-TERM RAIL PROFILE WEAR IN CURVES	Caroline Ansin	Chalmers University of Technology
			OS1.2c-4	U00014	SUSTAINABILITY OF THE RAILWAY-TRACK SYSTEM: UNINTENDED CONSEQUENCES	Jacob Whittle	University of Sheffield
				U00112	A TOOL FOR WHEEL-RAIL CONTACT HOTSPOTS ASSESSMENT	Alfredo Gay Neto	University of São Paulo
			001.20	000112		/ III oud day 110to	
Tue. 23 15:10 - 16:50		Polygonal wear 2	OS1.3a-1	80000U	AXLE BOX ACCELERATION-BASED MONITORING OF WHEEL-RAIL ROUGHNESS: AN APPLICATION FOR QUANTITATIVE DETECTION OF WHEEL POLYGON IN THE PRESENCE OF RAIL CORRUGATION	Qinglin Xie	Southwest Jiaotong University
			OS1.3a-2	U00045	ONLINE MONITORING OF WHEEL POLYGONAL WEAR UNDER WHEEL-RAIL COUPLED RESONANCE	Dadi Li	Southwest Jiaotong University
	1.3a		OS1.3a-3	U00075	EFFECT OF ABRASIVE BLOCK ON TRANSVERSE PROFILE WEAR AND POLYGONAL WEAR OF WHEEL	Peng Wang	Southwest Jiaotong University
			OS1.3a-4	U00079	STUDY ON POLYGONAL WEAR FORMATION OF LOCOMOTIVE WHEELS INDUCED BY ELECTROMECHANICAL COUPLING VIBRATION	Wubin Cai	Southwest Jiaotong University
			OS1.3a-5	U00193	EXPERIMENTAL STUDY ON THE EFFECTS OF SPEED CHANGING ON MITIGATION OF WHEEL POLYGONAL WEAR	Hengyu Wang	Southwest Jiaotong University
		Turnout and crossing 2	OS1.3b-1	U00022	ROLLING CONTACT FATIGUE PROPERTIES OF MANGANESE STEELS USED IN	Fusayoshi Aoki	East Japan Railway Company
		Crossing 2	OS1.3b-2	U00029	LONG-LIFE TONGUE RAIL PROFILE FOR REDUCING WEAR AND PREVENTING CRACKS	Masahiro Miwa	Central Japan Railway Company
	1.3b		OS1.3b-3	U00154	PRACTICAL ROLLING CONDITIONS ON DYNAMIC RESPONSE AND WEAR OF SWING NOSE CROSSINGS IN HEAVY HAUL RAILWAYS	Enhui Zhang	Monash Univeristy
			OS1.3b-4	U00195	ROLLING CONTACT FATIGUE INITIATION IN ADVANCED CROSSING MATERIALS R400,	Kazim Yildirimli	The University of Sheffield
			OS1.3b-5		MN13 AND CRB1400 AN INVESTIGATION OF WEAR AND RCF DAMAGE MECHANISM ON REVERSING	Lizuo Xin	Zhejiang Rail Transit Operation Management
		Measurement			TURNOUTS OF AN URBAN INTERCITY RAILWAY LINE TOWARDS REAL-TIME ASSESSMENT OF FLANGE CLIMB DERAILMENT RISK USING		Group CO.,LTD.
		and Monitoring		U00036	MACHINE LEARNING DERAILMENT COEFFICIENT PREDICTION USING LONG-SHORT TERM MEMORY	Nisal Sugathapala	Monash University
				U00161	NETWORK	Kenji Ejiri	The University of Tokyo
	1.3c		OS1.3c-3		WHEEL-MOUNTED ULTRASONIC WHEEL/RAIL INTERFACE MONITORING A QUANTUM-ENHANCED VIRTUAL MEASUREMENT OF TGAMMA AT WHEEL RAIL	Ruby Kempka	The University of Sheffield
				U00201	CONTACT	Sanjar Ahmad	Central Queensland University
			OS1.3c-5	U00202	DEVELOPMENT OF A TRIBOMETER REAL-TIME DIGITAL TWIN	Esteban Bernal	Central Queensland University

Time	ns	OS title	Section ID	Daner ID	Paper Title	Presenter	Affiliation
	US	OO LILIE	Session ID	raper ID	•	Fresenter	Annauon
Wed. 24 10:20 -		Wheel-rail contact	OS2.1a-1	U00003	PRE-PROCESSING OF WHEEL-RAIL PROFILES FOR CONTACT SIMULATION. HOW SMOOTH IS SMOOTH ENOUGH?	Kevin Oldknow	Simon Fraser University
12:00	simula	simulation	OS2.1a-2	U00090	IMPLEMENTING REALISTIC TRACTION-CREEPAGE CURVES IN RAIL VEHICLE DYNAMICS SIMULATIONS USING AN ELASTO-PLASTIC THIRD BODY LAYER	Kevin Oldknow	Simon Fraser University
	2.1a		OS2.1a-3	U00023	FURTHER NUMERICAL MODELING OF MEASURED RAILWAY CREEP FORCE CURVES USING CONTACT	Edwin Vollebregt	Vtech CMCC
			OS2.1a-4	U00033	A NEW GLOBAL APPROACH FOR WHEEL-RAIL CONTACT PATCH WEAR CALCULATION	Binbin Liu	Politecnico di Milano
			OS2.1a-5	U00082	VERIFICATION OF NON-HERTZIAN WHEEL-RAIL CREEP FORCE MODEL BASED ON FIELD TEST	Baoan Zhang	CRRC Qingdao Sifang Co., Ltd
		Wheel-rail interface 1	OS2.1b-1	U00131	THE COMBINED EVALUATION FOR WHEEL AND RAIL PROFILE OF HIGH-SPEED TRAIN TO REDUCING MAINTENANCE COST	Gang Shen	Tongji University
			OS2.1b-2	U00102	FINISHING WHEEL SHAPE TO SUPPRESS DEPTH OF CUT BASED ON MODIFIED ARC WHEEL PROFILE	Jun Fujiwara	East Japan Railway Company
	2.1b		OS2.1b-3	U00034	DYNAMICS PERFORMANCE AND WHEEL WEAR PREDICTION FOR A GAUGE- CHANGEABLE RAILWAY LOCOMOTIVE	Huailong Shi	Southwest Jiaotong University
			OS2.1b-4	U00175	EVALUATION OF WHEEL PROFILE WEAR WITH SCALED ROLLER TEST RIG CONSIDERING FULL-SCALE VEHICLE TEST CONDITIONS	Yosuke Yamazaki	Nippon Steel Corporation
			OS2.1b-5	U00179	A DIGITAL TWIN-BASED WHEEL WEAR PREDICTION FRAMEWORK	Dayuan Zhuang	Southwest Jiaotong University
		Friction and adhesion 1	OS2.1c-1	U00010	MEASUREMENT EXPERIMENT OF TANGENTIAL CONTACT FORCE BASED ON WATER FLOW RATE USING TWIN-DISK MACHINE	Daisuke Yamamoto	Railway Technical Research Institute
			OS2.1c-2	U00017	A NUMERICAL STUDY OF WHEEL-RAIL DYNAMIC ADHESION UNDER WET CONDITION WITH SPINNING CONSIDERING TEMPERATURE AND SURFACE ROUGHNESS	Bing Wu	Soochow University
	2.1c		OS2.1c-3	U00164	ON THE TRANSIENT MECHANISM OF WATER-PARTICLE INDUCED LOW-ADHESION PHENOMENON	Milan Omasta	Brno University of Technology
			OS2.1c-4	U00184	INVESTIGATION OF THE ADHESION BETWEEN RAILS AND WHEELS IN WINTER	Shinichi Saga	Railway Technical Research Institute
			OS2.1c-5	U00035	EXPERIMENTAL STUDY ON EXTREMELY LOW ADHESION OF WHEEL-RAIL BRAKE LARGE CREEPAGE UNDER VARIOUS MEDIUM CONDITIONS AT 400 KM/H	Chongyi Chang	China Academy of Railway Sciences Corporation Limited
Wed. 24 12:40 -		Rail grinding and milling 1	OS2.2a-1	U00009	EFFECTS OF RAIL GRINDING FACETS ON SURFACE INITIATED ROLLING CONTACT FATIGUE	Ulrich Spangenberg	MxV Rail
14:00		und mining 1	OS2.2a-2	U00132	RAIL GRINDING - A LABORATORY STUDY FOCUSED ON MATERIAL TRANSFORMATIONS DURING FACET GRINDING	Wangmo Tsering	Chalmers University of Technology
	2.2a		OS2.2a-3	U00018	INVESTIGATING THE DEVELOPMENT OF EQUIVALENT CONICITY IN-SERVICE AND GRADIENT INDEX PROFILES WITH FOCUS ON THE INFLUENCE OF RAIL GRINDING	Ingemar Persson	Swedish Transport Administration (Trafikverket)
			OS2.2a-4	U00185	IMPACT OF GRINDING LIMITATIONS ON RAIL PROFILE OPTIMIZATION	Carlos Casanueva	KTH Royal Institute of Technology
		Corrugation 1	OS2.2b-1	U00068	OBSERVATION OF RAIL VIBRATION CHARACTERISTICS IN RAIL CORRUGATION GROWTH PROCESS	Kazuhiro Kajihara	Railway Technical Research Institute
	2 26		OS2.2b-2	U00084	THE EFFECTS OF PLASTIC DEFORMATION ON WEAR-TYPE CORRUGATION GROWTH	Paul Meehan	The University of Queensland
	2.2b		OS2.2b-3	U00153	PERIODIC WEAR OF HIGH-SPEED WHEEL AND RAIL UNDER THE WAVE INTERFERENCE OF MULTIPLE WHEELS	Qinghua Guan	Southwest Jiaotong University
			OS2.2b-4	U00021	A FURTHER STUDY ON THE BASIC RAIL CORRUGATION THEORY SYSTEM	Guangxiong Chen	Southwest Jiaotong University
		Rail wear and damage 1	OS2.2c-1	U00011	WEAR AND FATIGUE OF THREE PEARLITIC RAIL STEELS IN A BONDED BRICK MODEL FOR RAIL FAILURE	Philomenah Holladay	The University of Sheffield
	2.2c		OS2.2c-2	U00097	METALLURGICAL RESPONSE OF VARIOUS RAIL GRADES TO FLASH BUTT WELDING IN HEAVY HAUL APPLICATIONS	Huijun Li	University of Wollongong
			OS2.2c-3	U00101	FROM WELD TO SETTLEMENT: A COMPREHENSIVE APPROACH TO EVALUATE THE INFLUENCE OF DIPPED WELDS ON TRACK PERFORMANCE	Lukas Prettner	voestalpine Rail Technology GmbH

14-10	Time	os	OS title	Session ID	Paper ID	Paper Title	Presenter	Affiliation
131a			RCF 1	OS3.1a-1	U00117		Pattarapong Nuasri	The University of Sheffield
State Contract C				OS3.1a-2	U00182		Zhijun Zhou	Southwest Jiaotong University
		3.1a		OS3.1a-3	U00083		Khaled Janada	Monash University
Priction and				OS3.1a-4	U00180	RESIDUAL STRESS CHANGES IN RAIL STEEL SUBJECTED TO ROLLING CONTACT	Yoshikazu Kanematsu	Railway Technical Research Institute
Solition 2				OS3.1a-5	U00016	INFLUENCE OF AXLE LOAD ON ROLLING CONTACT FATIGUE	Anders Ekberg	Chalmers University of Technology
0.53.11-2 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015 0.0015				OS3.1b-1	U00136		Radovan Galas	Brno University of Technology
SSI 16-3 000006 ADEA DATE DISTRICT OF LINES DISTRICT OF				OS3.1b-2	U00015		Shuyue Zhang	Southwest Jiaotong University
Pail grinding		3.1b		OS3.1b-3	U00166		Shinya Fukagai	Railway Technical Research Institute
Rail prinding 2				OS3.1b-4	U00062		Klaus Six	Virtual Vehicle Research GmbH
1.				OS3.1b-5	U00007		William Skipper	University of Sheffield
0.53 -2 0.00113 0.005 0.0014 0.0000 0.0014 0.0000 0.0014 0.0000 0.0014 0.0000 0.0014 0.0000 0.0014 0.0000 0.0014 0.0000 0.0014 0.0000 0.0000 0.0014 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 0.0000000 0.0000000 0.0000000 0.00000000				OS3.1c-1	U00125	EFFICIENT RAIL GRINDING IN URBAN ENVIRONMENTS	Richard Stock	Plasser Canada Inc
Process			and mining 2	OS3.1c-2	U00113	MODELING HIGH-SPEED MILLING OF RAILS FOR COST EFFICIENT MAINTENANCE	Ashok Ambig	Montanuniversität Leoben
Thu 15		3.1c		OS3.1c-3	U00143	MULTI-SCALE CHARACTERISATION OF NEW AND USED FIELD RAIL GRINDING STONES	Lucas Biazon	The University of Sheffield
Thu 25				OS3.1c-4	U00006		Xiaodi Xu	
12:30								
0.53.2a - 2. 10.00110 DAMAGE BERNATOUR DURING FOLUNG COUNTS OF TESTS - 5. 10.00110 DAMAGE BERNATOUR DURING FOLUNG CONTACT FATGURE IN RAIL STRENGGE EDDY CURRENT AND Sylvic Chemier National Research Council (NRC) Canada 10.00137 NSIDE RDF CRACKS, OXBATION AS A FACTOR IN RAIL DAMAGE Silvino Chemier National Research Council (NRC) Canada 10.00137 NSIDE RDF CRACKS, OXBATION AS A FACTOR IN RAIL DAMAGE Silvino Chemier National Research Council (NRC) Canada 10.00137 NSIDE RDF CRACKS, OXBATION AS A FACTOR IN RAIL DAMAGE Silvino Chemier National Research Council (NRC) Canada No.00137 NSIDE RDF CRACKS, OXBATION AS A FACTOR IN RAIL DAMAGE Silvino Chemier National Research Council (NRC) Canada No.00137 NSIDE RDF CREAMS No.00137 NSIDE RDF CREAMS No.00137 No.00137 NSIDE RDF CREAMS No.00137 No.00137 No.00137 NSIDE RDF CREAMS No.00137 No.00137 No.00137 NSIDE RDF CREAMS No.00137 NSIDE RDF CREAMS No.00137 NSIDE RDF CREAMS NS.00137 NS.00137 NSIDE RDF CREAMS NS.00137 NSIDE RDF CREAMS NS.00137 NS.00137 NS.00137 NSIDE RDF CREAMS NS.00137 NS.00137 NSIDE RDF CREAMS NS.00137 NSIDE RDF CREAMS NS.00137 NS.00137 NSIDE RDF CREAMS	12:30 -		RCF 2	OS3.2a-1	U00072		Qiang Lin	Tribology Research Institute, State Key Laboratory of Rail Transit Vehicle System
US3224-3 US324-3 US3	14:10			OS3.2a-2	U00110		Yue Yang	The University of Sheffield
S32a-3		3.2a		OS3.2a-3	U00114		Sylvie Chenier	National Research Council (NRC) Canada
Wheel-rail interface 2				OS3.2a-4	U00137	INSIDE RCF CRACKS: OXIDATION AS A FACTOR IN RAIL DAMAGE	Simon Skurka	Brno University of Technology
Interface 2 1000066 LOCALISATION UNDER HEAVY BRAKING COST				OS3.2a-5	U00054		Hongtao Zhu	University of Wollongong
0.53.2b			interface 2	OS3.2b-1	U00056		John Cookson	Monash University
3.2b				OS3.2b-2	U00066	NUMERICAL ASSESSMENT OF ROLLING CONTACT TESTING OF TREAD BRAKED		Chalmers University of Technology
Priction and adhesion 3		3.2b		OS3.2b-3	U00145			Chalmers University of Technology
Friction and achesion 3				OS3.2b-4	U00120		Xing Li	Southwest Jiaotong University
adhesion 3 adhesion 3 adhesion 3 OS3.2c-1 U00031 OS3.2c-2 U00111 OS3.2c-2 U00111 OS3.2c-2 U00111 OS3.2c-3 U00032 TRACTION ADHESION COEFFICIENT TEST FOR HEAVY-DUTY LOCOMOTIVES OS3.2c-3 U00032 TRACTION ADHESION COEFFICIENT TEST FOR HEAVY-DUTY LOCOMOTIVES OS3.2c-4 U00046 OS3.2c-4 U00046 OS3.2c-5 U00048 EFFECT OF WHEEL-RAIL SURFACE CONDITIONS ON FREIGHT TRAIN BRAKING: A SIMULATION STUDY TIGHT CURVES OS3.3c-1 U00118 TIGHT CURVES OS3.3c-2 U00030 INVESTIGATION AND SHAULATION AND SELEMENTAL CONDITIONS ON FREIGHT TRAIN BRAKING: A TIGHT CURVES OS3.3c-2 U00030 INVESTIGATION AND STUDY THE INFLUENCE OF LEATH-HAUL SURFACE CONDITIONS ON FREIGHT TRAIN BRAKING: A TIGHT CURVES OS3.3c-1 U00118 THE INFLUENCE OF LEATH-HAUL SURFACE CONDITION AND ELEMENTAL COMPOSITION OF RAIL- dynamics, noise and vibration OS3.3c-2 U00039 OS3.3c-1 U00016 OS3.3c-2 U00039 OS3.3c-1 U00018 THE INFLUENCE OF ELECTROMECHANICAL COURLING VIBRATIONS IN PERMANENT OS3.3c-2 U00039 OS3.3c-1 U00019 OS3.3c-2 U00039 OS3.3c-1 U00019 PRESIDENT OR ARILWAYS OS3.3c-1 U00028 OS3.3c-1 U00028 OS3.3c-1 U00029 OS3.3c-2 U00037 OS3.3c-1 U00029 OS3.3c-2 U00039 OS3.3c-1 U00029 OS3.3c-1 U00029 OS3.3c-1 U00029 OS3.3c-1 U00029 OS3.3c-2 U00039 OS3.3c-3 U00028 OS3.3c-3 U00				OS3.2b-5	U00126		Xinru Guo	Southwest Jiaotong University
OS3.2c-2 U00111 RALI CEANING TRIALS				OS3.2c-1	U00031	MOISTURE: THE MOST IMPORTANT FACTOR IN LEAF LOW ADHESION?	Roger Lewis	University of Sheffield
S3.2c U00032 SEPERIMENTAL AND SIMULATION-BASED RHEOLOGICAL FRICTION MODELING FOR DOS3.2c-5 U00048 EXPERIMENTAL AND SIMULATION-BASED RHEOLOGICAL FRICTION MODELING FOR DOS3.2c-5 U00048 EXPERIMENTAL AND SIMULATION DRY RAIL CONDITIONS Maksym Spiryagin Central Queensland University				OS3.2c-2	U00111			University of Sheffield
OS3.2c-4 U00046 LOCOMOTIVE TRACTION IN DRY RAIL CONDITIONS Maksym Spiryagin Central Queensland University		3.2c		OS3.2c-3	U00032	TRACTION ADHESION COEFFICIENT TEST FOR HEAVY-DUTY LOCOMOTIVES		
Thu. 25 14:40 - 16:00 Rail wear and damage 2 OS3.3a - 1 U00118 TURTLE SHELLING", A NEW TYPE OF DEFECT OF HEAD-HARDENED LOW RAILS IN TIGHT CURVES OS3.3a - 2 U00030 INVESTIGATION ON CHARACTERISTICS AND MECHANISMS OF PLASTIC FLOW IN INNER RAILS OF HEAVY-HAUL RAILWAYS OS3.3a - 3 U00030 U00319 U00319 U0033-3a - 3 U00039 U00309 U00				OS3.2c-4	U00046		Maksym Spiryagin	Central Queensland University
14:40 – 16:00 3.3a damage 2 3.3a OS3.3a-1 U00018 TIGHT CURVES OS3.3a-2 U00030 INVESTIGATION ON CHARACTERISTICS AND MECHANISMS OF PLASTIC FLOW IN INVESTIGATION ON CHARACTERISTICS AND MECHANISMS OF PLASTIC FLOW IN INVESTIGATION ON CHARACTERISTICS AND MECHANISMS OF PLASTIC FLOW IN INVESTIGATION ON CHARACTERISTICS AND MECHANISMS OF PLASTIC FLOW IN INVESTIGATION ON CHARACTERISTICS AND MECHANISMS OF PLASTIC FLOW IN INVESTIGATION OF RAIL— Wheel-rail dynamics, noise and vibration 3.3b Wheel-rail dynamics, noise and vibration 3.3b OS3.3b-1 U00160 MGDELLING AND CONTROLLING A RAILWAY BRAKE CONTACT MECHANICS OS3.3b-2 U00199 MDDELLING AND CONTROLLING A RAILWAY BRAKE CONTACT MECHANICS OS3.3b-3 U00028 MDDELLING AND CONTROLLING A RAILWAY BRAKE CONTACT MECHANICS OS3.3b-4 U00067 INTERACTION OF WHEEL SQUEAL NOISE AMPLITUDE UNDER COMBINED LATERAL AND RAILWAY BRAKEMS AND CONTROLLING A RAILWAY CLIPS CAUSED BY WHEEL-RAIL HIGH-FREQUENCY Linlin Sun China Academy of Railway Sciences Corporation Limited OS3.3c-1 U00024 FIELD VERIFICATION OF EFFECT OF RAIL PADS ON RAIL CORRUGATION GROWTH OS3.3c-2 U00037 ABSORBERS IN SUPPRESSING SHORT-PITCH RAIL CORRUGATION OS3.3c-2 U00037 BEFOCT OF METRO RESILIENT FASTENER TRACKS EQUIPPED WITH A RAIL DAMPER OS3.3c-2 U00037 BEFOCT OF METRO RESILIENT FASTENER TRACKS EQUIPPED WITH A RAIL DAMPER OS3.3c-2 U00037 BEFOCT OF METRO RESILIENT FASTENER TRACKS EQUIPPED WITH A RAIL DAMPER OS3.3c-2 U00037 BEFOCT OF METRO RESILIENT FASTENER TRACKS EQUIPPED WITH A RAIL DAMPER OS3.3c-2 U00037 BEFOCT OF METRO RESILIENT FASTENER TRACKS EQUIPPED WITH A RAIL DAMPER OS3.3c-2 U00037 BEFOCT OF METRO RESILIENT FASTENER TRACKS EQUIPPED WITH A RAIL DAMPER OS3.3c-2 U00037 BEFOCT OF METRO RESILIENT FASTENER TRACKS EQUIPPED WITH A RAIL DAMPER OS3.3c-2 U00037 BEFOCT OF METRO RESILIENT FASTENER TRACKS EQUIPPED WITH A RAIL DAMPER OS3.3c-2 U00037 BEFOCT OF METRO RESILIENT FASTENER TRACKS EQUIPPED WITH A RAIL DAMPER OS3.3c-2 U00037 BEFOCT ON CHARGE RESILIENT FASTENER TRACKS EQUIPPED WITH A RAIL DAMPER OS3.3c-2 U0				OS3.2c-5	U00048		Yan Quan Sun	Central Queensland University
14:40 - 16:00 3.3a damage 2 3.3a OS3.3a-1 U0018 TIGHT CURVES OS3.3a-2 U00030 INVESTIGATION ON CHARACTERISTICS AND MECHANISMS OF PLASTIC FLOW IN INVESTIGATION ON CHARACTERISTICS AND MECHANISMS OF PLASTIC FLOW IN INVESTIGATION ON CHARACTERISTICS AND MECHANISMS OF PLASTIC FLOW IN INVESTIGATION ON CHARACTERISTICS AND MECHANISMS OF PLASTIC FLOW IN INVESTIGATION ON CHARACTERISTICS AND MECHANISMS OF PLASTIC FLOW IN INVESTIGATION ON CHARACTERISTICS AND MECHANISMS OF PLASTIC FLOW IN INVESTIGATION OF RAIL— Wheel-rail dynamics, noise and vibration 3.3b Wheel-rail dynamics, noise and vibration 3.3b OS3.3b-1 U00160 MGRET DIRECT-DRIVE INBOARD BEARING BOGIES ON WHEELRAIL CONTACT CHARACTERISTICS AND MECHANICAL COUPLING VIBRATIONS IN PERMANENT CHARACTERISTICS AND MECHANICAL COUPLING VIBRATION IN PERMANENT CHARACTERISTICS AND MECHANICAL COUPLING VIBRATION IN PERMANENT CHARACTERISTICS AND MECHANISMS OF PLASTIC FLOW IN INVESTIGATION AND MECHANISMS OF PLASTIC FLOW IN PERMANENT COMPOSITION OF RAIL CONTACT MECHANICAL CONTACT MEC								
16:00 3.3a OS3.3a-2 U00030 INVESTIGATION ON CHARACTERISTICS AND MECHANISMS OF PLASTIC FLOW IN NINER RAILS OF HEAVY-HAUL RAILWAYS OF PLASTIC FLOW IN Shaofeng Wang East China Jiaotong University Wheel-rail dynamics, noise and vibration 3.3b Wheel-rail dynamics, noise and vibration 3.3b OS3.3b-1 U00030 U00030 WHEEL DAMAGE OS3.3b-2 U00190 VIBRATION IN PERMANENT HE INFLUENCE OF ELECTROMECHANICAL CHOPLING WBEAT WHEEL WEAR PARTICLES FOR IMPROVED AIR QUALITY OS3.3b-1 U00160 MAGRET DIRECT-DRIVE INBOARD BEARING BOGIES ON WHEELRAIL CONTACT Chen Yang Southwest Jiaotong University Southwest Jiaotong University OS3.3b-2 U00190 VIBRATION INSTABILITY OS3.3b-3 U00028 PREDICTION OF WHEEL SQUEAL NOISE AMPLITUDE UNDER COMBINED LATERAL AND Ratabhat Wangstawesap Corrugation 2 OS3.3b-4 U00067 INTERACTION AND CORRESPONDING COUNTERMEASURES OS3.3b-1 U00024 FIELD VERIFICATION OF EFFECT OF RAIL PADS ON RAIL CORRUGATION GROWTH Hirofumi Tanaka Railway Technical Research Institute OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION OS3.3c-2 U00037 MECHANISM ORD PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION OS3.3c-2 U00037 MECHANISM ORD PARAMETER OPT				OS3.3a-1		TIGHT CURVES	Andrea Bracciali	University of Florence
Wheel-rail dynamics, noise and vibration 3.3b Corrugation 2 Corrugation 2 OS3.3b-1 U000160 Wheel-rail dynamics, noise and vibration 3.3b Wheel-rail dynamics, noise and vibration 3.3b Wheel-rail dynamics, noise and vibration OS3.3b-2 U00199 Wheel-rail dynamics, noise and vibration Southwest Jiaotong University Southwest Jiaotong University BehAviour AND Wheel- DAMAGE UN01099 VIBRATION INSTABILITY OS3.3b-3 U00028 OS3.3b-4 U00067 RESONANT DAMAGE TO RAILWAY CLIPS CAUSED BY WHEEL-RAIL HIGH-FREQUENCY INTERACTION AND CONTRESHONDING COUNTERMEASURES OS3.3c-1 U00024 Corrugation 2 OS3.3c-1 U00024 OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION ABSORBERS IN SUPPRESSING SHORT-PTICH RAIL CORRUGATION OS3.3c-2 U00037 DEFIECT OF METRO RESILIENT FASTENER TRACKS EQUIPPED WITH A RAIL DAMPER UNIVERSITY OF Sheffield University of Southwest Jiaotong University Chen Yang Southwest Jiaotong University Chen Yang Southwest Jiaotong University The University of Queensland The Univers	16:00	3.3a		OS3.3a-2	U00030	INNER RAILS OF HEAVY-HAUL RAILWAYS	Shaofeng Wang	East China Jiaotong University
dynamics, noise and vibration 3.3b OS3.3b-1 U00160 MAGNET DIRECT-DRIVE INBOARD BEARING BOGIES ON WHEELRAIL CONTACT Chen Yang Southwest Jiaotong University				OS3.3a-3	U00039		Forbes Gusha	University of Sheffield
OS3.3b-2 U00199 MODELLING AND CONTROLLING A RAILWAY BRAKE CONTACT MECHANICS Paul Meehan The University of Queensland OS3.3b-3 U00028 PREDICTION OF WHEEL SQUEAL NOISE AMPLITUDE UNDER COMBINED LATERAL AND RAILD AND CONTROLLING AND CONTROLLING A RAILWAY CLIPS CAUSED BY WHEEL-RAIL HIGH-FREQUENCY INTERACTION AND CORRESPONDING COUNTERMEASURES Corrugation 2 OS3.3c-1 U00024 FIELD VERIFICATION OF EFFECT OF RAIL PADS ON RAIL CORRUGATION GROWTH Hirofumi Tanaka Railway Technical Research Institute OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION Qingjie Liu East China Jiaotong University East China Jiaotong University MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION Qingjie Liu East China Jiaotong University			dynamics,	OS3.3b-1	U00160	MAGNET DIRECT-DRIVE INBOARD BEARING BOGIES ON WHEELRAIL CONTACT	Chen Yang	Southwest Jiaotong University
OS3.3b-3 U00028 PREDICTION OF WHELE SQUEAL NOISE AMPLITUDE UNDER COMBINED LATERAL AND Hatabhat Unough to University of Queensland U00028 OS3.3b-4 U00067 RESONANT DAMAGE TO RAILWAY CLIPS CAUSED BY WHELL-RAIL HIGH-FREQUENCY Linlin Sun China Academy of Railway Sciences Corporation Limited Corrugation 2 OS3.3c-1 U00024 FIELD VERIFICATION OF EFFECT OF RAIL PADS ON RAIL CORRUGATION GROWTH Hirofumi Tanaka Railway Technical Research Institute OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION Qingjie Liu East China Jiaotong University EFFECT OF METRO RESILIENT FASTENER TRACKS EQUIPPED WITH A RAIL DAMPER		0.01		OS3.3b-2	U00199	MODELLING AND CONTROLLING A RAILWAY BRAKE CONTACT MECHANICS	Paul Meehan	The University of Queensland
OS3.3b-4 U00067 RESONANT DAMAGE TO RAILWAY CLIPS CAUSED BY WHEEL-RAIL HIGH-FREQUENCY INTERACTION AND CORRESPONDING COUNTERMEASURES Corrugation 2 OS3.3c-1 U00024 FIELD VERIFICATION OF EFFECT OF RAIL PADS ON RAIL CORRUGATION GROWTH Hirofumi Tanaka Railway Technical Research Institute OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION Or RAIL CORRUGATION Or RAIL VIBRATION OR RAIL CORRUGATION OR RAIL VIBRATION OR RAIL DAMPER RESEARCH RAIL FIRST CORRUGATION OR RAIL VIBRATION OR RAIL DAMPER RESEARCH RAIL FIRST CORRUGATION OR RAIL DAMPER RESEARCH RAIL FIRST CORRUGATION OR RAIL DAMPER RESEARCH RAIL FIRST CORRUGATION OR RAIL DAMPER RESEARCH RAIL DAMPER		3.3b		OS3.3b-3	U00028			The University of Queensland
OS3.3c-1 U00024 Hirofumi I anaka Railway Technical Research Institute 3.3c OS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION Qingjie Liu East China Jiaotong University COS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION Qingjie Liu East China Jiaotong University COS3.3c-2 U00037 MECHANISM AND PARAMETER OPTIMIZATION DESIGN OF RAIL VIBRATION Qingjie Liu East China Jiaotong University				OS3.3b-4	U00067	RESONANT DAMAGE TO RAILWAY CLIPS CAUSED BY WHEEL-RAIL HIGH-FREQUENCY INTERACTION AND CORRESPONDING COUNTERMEASURES		
3.3c OS3.3c-2 U00037 ABSORBERS IN SUPPRESSING SHORT-PITCH RAIL CORRUGATION Qingjie Liu East China Jiaotong University			Corrugation 2	OS3.3c-1	U00024	FIELD VERIFICATION OF EFFECT OF RAIL PADS ON RAIL CORRUGATION GROWTH	Hirofumi Tanaka	Railway Technical Research Institute
		3.3c		OS3.3c-2	U00037		Qingjie Liu	East China Jiaotong University
OSCIONAL OF STATE OF THE FORMATION OF RAIL CORRUGATION				OS3.3c-3	U00050	EFFECT OF METRO RESILIENT FASTENER TRACKS EQUIPPED WITH A RAIL DAMPER ON THE FORMATION OF RAIL CORRUGATION	Wei Li	Southwest Jiaotong University

Final List of Poster Session (PS) Presenters

Poster presentations are sorted into two groups. After a one-minute shotgun presentation per person, the poster presentations will be held in two separate groups. Paper IDs are kept here for the presenters' convenience, but they will be omitted in the printed program distributed at the Registration desk. The printed program will also list not only the presenters but their co-authors, and the Session IDs will correspond to the filenames of the full papers distributed online.

Poster Session Group A: Wheel-Rail Contact, Wear, Vehicle Measurement and Dynamics						
Session ID	Paper ID	Paper Title	Presenter	Affiliation		
PS.A-1	U00013	RESEARCH ON WHEEL POLYGONAL WEAR OF METRO VEHICLES BASED ON WHEELRAIL VERTICAL COUPLING	Yixuan Shi	Wuhan University		
PS.A-2	U00051	INVESTIGATION OF HUNTING MOTION IN EMUS DURING CROSS-LINE OPERATION USING WHEEL WEAR PREDICTION	Zhenhuan Yang	Southwest Jiaotong University		
PS.A-3	U00059	LATERAL CREEP FORCE DECOUPLING ANALYSIS IN INDIRECT WHEEL-RAIL FORCE MEASUREMENT	Zhanfei Zhang	Tongji University		
PS.A-4	U00061	ANALYSIS OF BRAKING STABILITY AND WHEEL WEAR OF TRAIN UNDER DIFFERENT TRACK CONDITIONS	Yuhang Zhang	Tongji University		
PS.A-5	U00063	PREDICTION AND OPTIMIZATION OF WHEEL TREAD HOLLOW WEAR UNDER TRACTION CONDITION	Yiyang Song	Tongji University		
PS.A-6	U00069	WHEEL PROFILE CLUSTERING OF HIGH-SPEED TRAINS BASED ON GEOMETRIC AND DYNAMIC FEATURES	Lin Gan	Southwest Jiaotong University		
PS.A-7	U00081	FAST NON-HERTZIAN WHEEL-RAIL THERMAL CONTACT MODELS INTEGRATED WITH TREAD BRAKE IN TRAIN DYNAMIC SIMULATIONS	Riccardo Siniscalchi	Tor Vergata University of Rome		
PS.A-8	U00088	STUDY OF WHEEL WEARS BASED ON FIELD DATA AND DEVELOPMENT OF WHEEL PROFILE MEASURMENT DEVICE	Shigemitsu Kita	Central Japan Railway Company		
PS.A-9	U00093	ASYMMETRIC WEAR EVOLUTION OF POLYGONAL WHEEL IN RAILWAY VEHICLE SYSTEMS USING A RIGID-FLEXIBLE COUPLING MODEL	Peng Lu	Beijing Jiaotong University		
PS.A-10	U00100	IMPROVED WHEEL LOAD ESTIMATION FOR PQ MONITORING BOGIE CONSIDERING LATERAL DYNAMICS	Yuzuki Endo	Ibaraki University		
PS.A-11	U00108	A PARAMETRIC STUDY ON FLAT-INDUCED IMPACT RESPONSES FOR WHEEL CONDITION MONITORING	Zhen Yang	Delft University of Technology		
PS.A-12	U00115	STUDY OF WHEEL-RAIL ADHESION EXPLOITATION OF HIGH-SPEED TRAIN IN THE PRESENCE OF WIDE-WAVELENGTH IRREGULARITIES	Shuangchao Huang	Southwest Jiaotong University		
PS.A-13	U00121	EFFECT OF YAW DAMPER PERFORMANCE DETERIORATION ON WHEEL-RAIL CONTACT BEHAVIOR AND WHEEL WEAR	Chenchen Jiang	Southwest Jiaotong University		
PS.A-14	U00128	A SPATIAL DOMAIN-BASED ONLINE IDENTIFICATION ALGORITHM FOR WHEEL POLYGONIZATION	Haoyu Zhou	Shanghai University of Engineering Science		
PS.A-15	U00152	COMPARATIVE ANALYSIS ON THE CONTACT BEHAVIOUR OF HIGH- SPEED WHEEL/RAIL PROFILES	Qinghua Guan	Southwest Jiaotong University		
PS.A-16	U00155	A COMPARATIVE STUDY OF THE VIBROACOUSTIC PROPERTIES ON TWO DIFFERENT TYPES OF TRAMWAY BOGIES	Kresimir Burnac	University of Zagreb		
PS.A-17	U00158	DEVELOPMENT OF A COUPLED ANALYSIS METHOD FOR LARGE-SCALE PARALLEL FINITE ELEMENT ANALYSIS AND MULTI-BODY SIMULATION	Hirotaka Sakai	Railway Technical Research Institute		
PS.A-18	U00162	METRO WHEEL-RAIL INTERACTION EVOLUTION DUE TO WHEEL PROFILE WEAR	Peibin Jiang	Southwest Jiaotong University		
PS.A-19	U00173	DEVELOPMENT OF A SINGLE-AXLE STEERING BOGIE USING REAR AXLE CREEP FORCE (PART 1: STEERING MECHANISM)	Satoshi Kikko	Nippon Steel Corporation		
PS.A-20	U00178	DEVELOPING A SINGLE-AXLE STEERING BOGIE USING REAR AXLE CREEP FORCE (PART 2: EVALUATION IN FIELD TESTS AND MASS PRODUCTION)	Tomofumi Toide	Nippon Steel Corporation		
PS.A-21	U00176	EVALUATION OF A STEERING BOGIE ABOUT RUNNING RESISTANCE AND POWER CONSUMPTION	Hirotaka Mori	National Traffic Safety and Environment Laboratory		
PS.A-22	U00187	IDENTIFICATION OF EARLY SIGNS FOR FLANGE CLIMB DERAILMENT WITH EXPERIMENT DATA	Kenji Ejiri	The University of Tokyo		
PS.A-23	U00188	EFFORTS TO REDUCE WHEEL FLANGE WEAR AND RAIL SIDE WEAR	Takuya Matsuda	Tokyo Metro		
PS.A-24	U00189	VEHICLE DYNAMICS SIMULATION CONSIDERING MULTI-POINT CONTACT BETWEEN WHEEL AND RAIL DURING EARTHQUAKES	Masahito Kuzuta	Railway Technical Research Institute		
PS.A-25	U00020	A STUDY OF THE WHEEL WEAR PHENOMENON RESULTING FROM TREAD MODIFICATION FOR HIGH-SPEED TRAINS: MECHANISM AND APPLICATION	Yuchen Xie	Southwest Jiaotong University		

		Group B:		
		terial Degradation, Grinding and Lubrication, Track Monitoring a		
Session ID	Paper ID	Paper Title	Presenter	Affiliation
PS.B-1	U00038	ANALYSIS OF CAUSES OF BELGROSPI DAMAGE ON HIGH-SPEED RAILS USING 3D CYCLIC ROLLING CONTACT FINITE ELEMENT MODEL	Chenyu Yang	Southwest Jiaotong University
PS.B-2	U00055	STUDY ON THE INFLUENCE OF THREE-DIMENSIONAL PROFILE OF RAIL WELD ON WHEEL-RAIL IMPACT RESPONSE IN SMALL RADIUS CURVE OF METRO	Shi Duojia	Southwest Jiaotong University
PS.B-3	U00057	ANALYSIS OF THE INTERACTION BETWEEN BALLASTLESS TRACK DISENGAGING LENGTH AND TRACK SLAB DEFLECTION SLOPE	Guangqi Wang	Wuhan University
PS.B-4	U00065	UNDERSTANDING THE FORMATION MECHANISMS OF LEAF LAYERS ON THE RAIL SURFACE USING A HIGH-PRESSURE TORSION TEST	Tianhao Xie	The University of Sheffield
PS.B-5	U00070	THE EFFECT OF FATIGUE LAYER FORMATION ON WEAR DEVELOPMENT AND CRACK INITIATION	Masahiro Tsujie	Railway Technical Research Institute
PS.B-6	U00080	SIMULATION OF WHEEL WEAR AND ROLLING CONTACT FATIGUE CRACK PROPAGATION USING CALIBRATED MATERIAL PARAMETERS BY NEURAL NETWORK	Gongquan Tao	Southwest Jiaotong University
PS.B-7	U00085	RAIL LUBRICATION MANAGEMENT CONSIDERING MULTIPLE CURVES WITH PQ MONITORING BOGIE	Yusaku Shimizu	Tokyo Metro Co., Ltd.
PS.B-8	U00086	CONTACT BEHAVIOR AND JAMMING THRESHOLDS OF BEAM-END EXPANSION DEVICES IN LONG-SPAN RAILWAY BRIDGES	Min Xue	Southwest Jiaotong University
PS.B-9	U00087	RAIL PROFILE OPTIMIZATION - COSTS AND BENEFITS OF ACHIEVING "PERFECT" PROFILES	Eric Magel	EM-WRI Consulting Inc.
PS.B-10	U00094	TEMPERATURE IN THE WHEEL-RAIL CONTACT: MEASUREMENT AND MODEL	David Künstner	voestalpine Rail Technology GmbH
PS.B-11	U00095	ACHIEVING PRECISE CONTROL OF THE WHEEL/RAIL INTERFACE THROUGH THE APPLICATION OF DYNAMIC GRIND PLANNING	Christopher Hartsough	Harsco Rail
PS.B-12	U00098	A THREE-DIMENSIONAL SEMI-ANALYTICAL ELASTOPLASTIC CONTACT MODEL FOR WHEEL-RAIL INTERACTION WITH SPIN-ROLLING	Hongxiang Lai	Southwest Jiaotong University
PS.B-13	U00107	MITIGATING WHEEL-RAIL IMPACT LOADS AND DAMAGE IN RAILWAY CROSSINGS BY CROSSING RAIL TOPOLOGY MODIFICATION	Henrik Vilhelmson	Chalmers University of Technology
PS.B-14	U00129	PIXEL LEVEL SEGMENTATION AND SURFACE WEAR EVALUATION OF RAIL SURFACE RUNNING BAND	Mingjing Yue	Southwest Jiaotong University
PS.B-15	U00133	CORRELATION ANALYSIS BETWEEN AXLE-BOX ACCELERATION AND RAIL CORRUGATION FOR CONDITION-BASED MONITORING	Naomi Kubo	Nippon Steel Railway Technology Co., Ltd.
PS.B-16	U00135	IN-SITU FATIGUE CRACK PROPAGATION OF PEARLITIC RAIL STEEL SUBJECTED TO LARGE SHEAR DEFORMATION	Johan Ahlström	Chalmers University of Technology
PS.B-17	U00138	PREDICTING RAIL WEAR USING A HYBRID APPROACH: MODEL SELECTION AND OPTIMIZATION	Yu Chen	Chengdu University
PS.B-18	U00139	ON BOARD DETECTION METHOD FOR DYNAMIC GAUGE WIDENING	Yosuke Ichiyanagi	National Traffic Safety and Environment Laboratory
PS.B-19	U00147	COMPARATIVE ANALYSIS OF BRAKE SHOE MATERIALS FOR RAILWAY INDUSTRY USING A NOVEL TWIN-DISC TEST RIG		Politecnico di Torino
PS.B-20	U00150	OPTIMISING WHEEL AND RAIL ECONOMY BY NON-UNIFORM RAIL GRINDING	Ingemar Persson	AB DEsolver
PS.B-21	U00163	DIGITAL TWIN TECHNOLOGY FOR VERTICAL SPLIT HEAD RISK MANAGEMENT IN RAILWAY TRACKS	Ankur Ashtekar	Loram Maintenance of Way, Inc.
PS.B-22	U00167	STUDY ON RAIL CORRUGATION CHARACTERISTICS OF FLOATING SLAB TRACK	Yunlong Yang	Ningxia University
PS.B-23	U00171	TRANSFER FUNCTION-BASED DIAGNOSIS OF ISOLATOR FAILURES IN STEEL SPRING FLOATING SLAB TRACK SYSTEMS	Qingmin Hui	Southwest Jiaotong University
PS.B-24	U00174	RESEARCH ON STATISTICAL CHARACTERISTICS OF RAIL ROLLING CONTACT FATIGUE LIFE UNDER DRY FRICTION: SCALED TESTS AND SIMULATIONS	Weng Zhiyi	Key Laboratory of Road and Traffic Engineering of the Ministry of Education
PS.B-25	U00190	EVALUATING THE EFFECT OF RAIL GRINDING ON WHITE ETCHING LAYER AND ROLLING CONTACT FATIGUE IN THE BELGIAN RAILWAY NETWORK	Zili Li	Delft University of Technology
PS.B-26	U00198	MULTI-OBJECTIVE OPTIMIZATION OF WHEEL PROFILE CONSIDERING RAIL WEAR ON CURVED SECTIONS	Tomoaki Shimada	Nihon University
PS.B-27	U00168	THEORETICAL AND EXPERIMENTAL STUDY ON ELASTIC WAVE PROPAGATION IN THREE-DIMENSIONAL PERIODIC BALLASTED TRACK OF HIGH-SPEED RAILWAY: BAND-GAP FORMATION MECHANISMS AND CHARACTERISTICS	Mingjing Geng	Southwest Jiaotong University