

GTB Glare and Visibility Forum

Monday, 22 October 2018 (Prior to GRE-80th session) 09:30 – 17:30 Palais des Nations, Geneva - Room IX

FINAL AGENDA

As proposed during the 79th GRE session, GTB is pleased to organise this one-day forum to provide the contracting parties and GRE experts with an opportunity to hear the conclusions of the Research Institutes, of Asia, Europe and the USA, focussed on the important issue of Glare and Visibility.

This forum will focus on the scientific issues and will not include presentations from representatives of industry.

The forum was organized by Dr. Rainer Neumann and Mr. Gert Langhammer, chair and secretary of the GTB Safety & Visual Performance (SVP) Working Group respectively. The forum will be moderated by Dr. Bart Terburg, GTB Vice-President.

09:30	Introduction to the Forum	
09:40	Elderly People, General Visibility Versus Glare and Headlamp Cleaning in Automotive lighting	Jonas Kobbert, M.Sc, Doctoral Student TU Darmstadt, Germany
	Mr. Kobbert is a doctoral student at the Laboratory of Lighting Technology in Darmstadt. He received his B.Sc. and M.Sc. in Physics at the Technical University in Darmstadt (2009-2014). Since 2014 his areas of research have included, detection and identification in real life driving, analysis of driver's gaze and fixation behaviour, pupillary movement under glare, and headlamp light distribution optimization. He is currently completing his PhD Thesis, titled "Optimization of Automotive Light Distributions for Different Real Life Traffic Situations" (awaiting approval in December 2018).	
10:10	Recent study on benefits of ADB	Prof. Dr. Dirk Meyer THM Gießen, Germany
	Dr. Meyer is the Study Dean and Professor for Vehicle Body Engineering, Propulsion Systems and Vehiclightweight technologies at TH Mittelhessen University of Applied Science in Giessen, Germany since 2012. Dr. Meyer holds a B.Sc. in Automotive Engineering from the University of applied Science in Cologne, Germany, a M.Sc. in Automotive Systems Engineering from Loughborough University in Loughborough, UK, and a PhD in Mechanical Engineering from the University of Duisburg-Essen, Germany. Prior to his position at TH Mittelhessen he held positions at Ford Motor Company in Cologn Germany, positions in exterior lighting at Visteon Lighting in Cologne, Germany and most recently at Mercury-Brunswick Marine in Verviers, Belgium.	
10:40	Visibility under adverse weather condition in automotive lighting	Prof. Chan-Su Lee Yeungnam University, Republic of Korea
	Dr. Lee is a professor in the department of Electronics Engineering and the director of LED-IT Fust Technology Research Center (LIFTRC) at Yeungnam University in Korea. He holds a Master of Sci KAIST (Korea Advanced Institute of Science and Technology) and he received his Ph.D. from Rute State University of New Jersey, USA. His research interests include visibility analysis and human system, human factors for automotive lighting and general lighting, and machine learning and intelligence in computer vision.	
	Coffee Break (40 Minutes)	

11:50	Importance of visibility improvements for	Dr. Michael Flannagan
	safety in automotive lighting	UMTRI, Ann Arbor, MI, USA
	Mike Flannagan is a Research Associate Professor at the University of Michigan Transportation Resear Institute (UMTRI). He has been at UMTRI since receiving his Ph.D. from the University of Michigan in 1989. Most of his research involves a combination of vision science and analysis of crash data to addressues in automotive safety, especially in driver visual performance. Much of his work has been on how driver vision can be improved by innovations in traditional vehicle systems, such as adaptive headlamly and by the introduction of new systems, such as camera-based vision and warning systems.	
12:30	Questions and Discussion	
13:00	Lunch (90 Minutes)	
14:30	Headlamp Light Performance evaluation	Dr. John Bullough Rensselaer Polytechnic Institute, Troy NY, USA
	Dr. John Bullough is the Director of Transportation and Safety Lighting Programs and an Adjunct Faculty Member at the Lighting Research Center, Rensselaer Polytechnic Institute in Troy, New York, USA. He conducts research in the areas of visual performance, glare, mesopic vision, color perception, flicker and driving safety, and teaches human factors and research methods in the graduate programs in Lighting at Rensselaer. John is a Fellow of the Illuminating Engineering Society, Vice President of the Council for Optical Radiation Measurements, and is a member of the Commission Internationale de l'Eclairage, the Society of Automotive Engineers, the Society for Information Display, and the Transportation Research Board of the National Academies Standing Committee on Visibility. He has written or co-written more than 450 articles and technical publications on lighting, nearly 100 of those with student co-authors.	
15:00	Glare and visibility by headlight for pedestrian and elderly driver	Dr. Yoshiro Aoki National Traffic Safety and Environment Laboratory, (NTSEL), Japan
	Dr. Aoki is a Senior Researcher in the National Traffic Japan. His research focuses on the area of improveme improvement of how to be seen by lighting, and the s	ent of traffic safety, light scattering in fog, the
15:30	Coffee Break (45 Minutes)	
10.15	Glare and visibility by headlamps with different	
	Glare and visibility by headlamps with different	Prof. Yandan Lin - Fudan University, China
16:15	Glare and visibility by headlamps with different control strategy	Prof. Yandan Lin - Fudan University, China Chinese Technical Committee of CIE
16:15		Chinese Technical Committee of CIE ight Sources & Illuminating Engineering in Fudan In University and Technische Universität Darmstadt. Ision 4 (Lighting and Signaling for Transportation). In Automotive Lighting (IFAL) for 6 years. Her Ilighting, visual safety, visual efficiency, and health. In Ind dynamic control strategy include National Ision China Commercial Aircraft, National High Ininia and the National Basic Research Program of Inicicles. She gained the second prize of Shanghai Is the Great Contribution for China Solid State
16:15	Prof. Dr. Yandan Lin is working in the Department of L University. She received Ph.D. education in both Fuda. She takes the position of Chinese member for CIE Divis She is also the director of CIES Division for Lighting an successfully organized Chinese International Forum of research interest focuses on the relationship between Some of her research projects on visual mechanism an Natural Science Foundation of China, Special Project of Technology Research and Development Program of China. She has published more than 100 academic art Science Progress Award in 2013 and she was awarded	Chinese Technical Committee of CIE ight Sources & Illuminating Engineering in Fudan In University and Technische Universität Darmstadt. Ision 4 (Lighting and Signaling for Transportation). In Automotive Lighting (IFAL) for 6 years. Her Ilighting, visual safety, visual efficiency, and health. In Ind dynamic control strategy include National Ision China Commercial Aircraft, National High Ininia and the National Basic Research Program of Inicicles. She gained the second prize of Shanghai Is the Great Contribution for China Solid State