

# International Symposium of Hydrogen Polymers Team, HYDROGENIUS

< Date and hour > 9:30-16:50, Friday, 28<sup>th</sup> January 2022 (JST)  
 < Venue > Online (ZOOM meeting)  
 < Language > English

## Program and Speaker

Time (JST)	Program and Speaker
09:30-09:40	Opening Remarks <b>Prof Shin NISHIMURA</b> , Kyushu University (Japan)
09:40-10:10	Toyota Project PORTAL – Zero emission class 8 truck powertrain – <b>Dr Takehito YOKOO</b> , Toyota Motor North America (USA)
10:10-11:00	High-pressure hydrogen effect on the ZnO/S interface in EPDM and NBR rubbers <b>Dr Kevin SIMMONS</b> , Pacific Northwest National Laboratory (USA)
11:00-11:10	10-minute-break
11:10-12:00	Coupled diffusion-deformation-damage model to predict the damage initiation in polymer during rapid decompression failure. <b>Dr Shank KULKARNI</b> , Pacific Northwest National Laboratory (USA)
12:00-12:50	Durability assessment of rubber seal device for high-pressure hydrogen gas. <b>Prof Hirotada FUJIWARA</b> , Kyushu University (Japan)
12:50-13:30	Lunch Break
13:30-14:30	Lab tour for participants at Inamori Hall
15:00-15:50	AI analysis of the high-pressure properties of rubber materials <b>Dr Hiroaki ONO</b> , Kyushu University (Japan)
15:50-16:40	Sub critical crack growth of PA11 hose liner for high-pressure hydrogen gas supply <b>Prof Takashi KURIYAMA</b> , Yamagata University (Japan)
16:40-16:50	Closing Remarks <b>Prof Shin NISHIMURA</b> , Kyushu University (Japan)

## Local Time for the symposium

	Japan (JST)	China (CST)	US West (PST)	US East (EST)	Europe (CET)	UK (GMT)
Dr Yokoo	09:40	08:40	16:40*	19:40*	01:10	00:40
Dr Simmons	10:10	09:10	17:10*	20:10*	02:10	01:10
Dr Kulkarni	11:10	10:10	18:10*	21:10*	03:10	02:10
Prof Fujiwara	12:00	11:00	19:00*	22:00*	04:00	03:00
Dr Ono	15:00	14:00	22:00*	01:00	07:00	06:00
Prof Kuriyama	15:50	14:50	22:50*	01:50	07:50	06:50

\* Thursday, 27 January