

**Thursday 6<sup>th</sup> June 2024**

Time	Speaker	Organization	Title
08.30-08.35	WELCOME		
08.35-09.00	Director general for energy <b>Riku Huttunen</b>	Ministry of Economic Affairs and Employment of Finland	The Role of Hydrogen in the Finnish Energy and Climate Strategy
09.00-09.25	Development manager, Hydrogen and P2X <b>Jaana Viitakangas</b> Market Analyst, Hydrogen & P2X <b>Benjamin Stumpf</b>	Helen Ltd	Hydrogen transition and Helen's perspectives
09.25-09.50	Vice president, Industrial energy and hydrogen <b>Antti Arasto</b>	VTT	Technology insights to Green H2 investments
09.50-10.15	Senior officer, Industrial processes <b>Anna Pääkkönen</b>	Finnish Safety and Chemicals Agency	Safety aspects in hydrogen facility siting
10.15-11.05	Professor <b>Yoshinori Sawae</b>	Kyushu University, Japan	Research on Science and Technology for Hydrogen Utilization – Challenge of Kyushu University and HYDROGENIUS
11.05-11.30	Senior scientist <b>Ville Saarinen</b>	VTT	Water Electrolysis for Green Hydrogen Production: Technical Challenges, Materials and Research Activities at VTT
11.30-13.00	LUNCH & POSTERS		
13.00-13.25	R&D Manager <b>Jouni Puranen</b>	Elcogen Ltd	<i>TBD</i>
13.25-13.50	Manager, Materials engineering <b>Matias Ahonen</b>	Neste Ltd	Hydrogen effects on process equipment failures
13.50-14.15	Research scientist <b>Sofia Ojasalo</b>	VTT	Power Generation by Ammonia: High Temperature Corrosion of Steels by Nitridation
14.15-14.40	Senior research scientist <b>Vigdis Olden</b>	SINTEF, Norway	Safe pipelines for hydrogen transport
14.40-15.05	Leading advisor, Metallic materials and welding <b>Lars Magne Haldorsen</b>	Equinor, Norway	Development of design criteria for re-purposing of existing natural gas pipelines to hydrogen transport pipelines
15.05-15.30	Post-doctoral researcher <b>Renata Latypova</b>	University of Oulu	The effect of low-temperature tempering on hydrogen diffusion and trapping in direct-quenched martensitic steel
15.30-16.00	COFFEE BREAK		
16.00-16.25	Dr. <b>Geraldine Theiler</b>	BAM, Germany	Overview of tribology in gaseous hydrogen
16.25-16.50	Professor <b>Yoshinori Sawae</b>	Kyushu University, Japan	Polymer tribology in hydrogen utilization
16.50-17.15	Principal scientist <b>Helena Ronkainen</b>	VTT	Influence of ammonia on the lubricant properties and performance
17.15-17.40	Professor <b>Nazanin Emami</b>	Luleå University of Technology, Sweden	Cryogenic tribology
17.40-17.45	<i>Concluding remarks and instructions for the dinner</i>		



**Friday 7<sup>th</sup> June 2024**

<b>Time</b>	<b>Speaker</b>	<b>Organization</b>	<b>Title</b>
09.00-09.25	Research professor <b>Elina Huttunen-Saarivirta</b>	VTT	Fatigue of steels in hydrogen
09.25-09.50	Professor <b>Zhiliang Zhang</b>	NTNU, Norway	A void-based predictive model for hydrogen embrittlement
09.50-10.15	Assistant professor <b>Haiyang Yu</b>	Uppsala University, Sweden	Discrete dislocation dynamics based simulation of the interplay between hydrogen and localized plasticity
10.15-10.40	Lecturer <b>Thomas Hammerschmidt</b>	Ruhr University Bochum, Germany	Atomistic modelling of hydrogen in transition metal alloys
10.40-11.05	Senior scientist <b>Napat Vajragupta</b>	VTT	Multiscale Characterisation and Simulation for Hydrogen Embrittlement Assessment
11.05-11.30	Professor <b>Fluyra Djurabekova</b>	University of Helsinki	Hydrogen effects in copper under ion irradiation condition
11.30-11.55	Professor <b>Emilio Martinez-Paneda</b> (remote)	University of Oxford, UK	Towards a Virtual Hydrogen Lab: electro-chemo-mechanical predictions of hydrogen uptake, transport and embrittlement
11.55-12.00	<i>Concluding remarks</i>		
12.00-13.00	LUNCH		
13.00-13.15	Walk to VTT labs, safety instructions etc.		
13.15-15.00	Lab tours (2*45) + 15 min for change		
15.00	End & good-bye		

