

Summer school at the University of Stavanger, Norway 17th - 21th June, 2024

UTFORSK project: “HyTack: Tackling the challenges in the Hydrogen economy through education and research”.

Hybrid on-line / off-line event

Registration deadline May 6th, 2024

Program

Day 1 // Tuesday, June 18th // Hydrogen production and purification	
08.30 – 9.00	Coffee for early birds
9.00 – 9.30	Welcome // Green transition at the UiS // Helge B. Larsen, vice-dean of research, The Faculty of Technical and Natural Sciences, UiS
9.30 – 10.00	H2@UiS // HyTack project presentation // Olena Zavorotynska
10.00 – 10.30	Hydrogen economy: Overview // TBA
10.30 – 10.45	Coffee break
10.45 – 11.15	Hydrogen research in Norway: HyValue // Jonas Solbakken
11.15 – 12.00	TBA // Adelio Mendes, University of Porto (Portugal)
12.00 – 12.45	Hydrogen production overview: opportunities and challenges // Avinash Khumbar, SPPU
12.45 – 13.45	Lunch
13.30 – 16.30	Visit to Risavika
17.00 – 18.00	Industry talk // TBA
Day 2 // Wednesday, June 19th // Hydrogen production and separation	
08.30 – 9.00	Coffee for early birds
9.00 – 9.45	Photocatalytic / photo-electrochemical hydrogen production // Dhayalan Velauthapillai, HVL
9.45 – 10.30	"Facet-selective deposition of 2D MXene onto anisotropic single-crystal oxides for efficient photocatalysis" // Shun Kashiwaya, Linkoping University, Sweden
10.30 – 10.45	Coffee break
10.45 – 12.30	Hydrogen production: Steam methane reforming // Zhixin Yu, UiS

12.30 – 13.30	Lunch
13.30 – 18.00	Field trip, packed snack
19.30	Return to Stavanger
Day 3 // Thursday, June 20th // Hydrogen storage	
08.30 – 9.00	Coffee for early birds
9.00 – 10.00	Hydrogen storage: challenges and opportunities // Bjørn Hauback, IFE
10.00 – 10.45	Large scale seasonal energy storage systems // Raof Golami, UiS
10.45 – 11.00	Coffee break
11.00 – 11.45	Hydrogen storage: materials storage // Toyoto Sato, SIT
11.45 – 12.30	Techno-economic analysis of hydrogen storage tank // Stefano Deledda, IFE
12.30 – 13.30	Lunch
13.30 – 15.30	Group work: 1) Techno-economic analysis 2) Geological storage 3) Hydrogen storage in materials
15.30 – 15.45	Coffee break
15.45 – 16.45	Industry talk // HEXAGON Purus
Day 4 // Friday, June 21st // Hydrogen utilisation and safety	
08.30 – 9.00	Coffee for early birds
9:00 – 10:00	Hydrogen gas turbines // Mohsen Assadi, UiS
10.00 – 10.45	Gas to feed // TBA
10.45 – 11.00	Coffee break
11:00 – 11:45	Hydrogen safety // TBA
11:45 – 12:30	Why hydrogen is not more dangerous than gasoline // USN, Agnieszka Lach
12:30 – 13:30	Lunch
13:30 – 14:30	Hydrogen safety workshop // Agnieszka Lach, USN
14:30 – 15:30	PhD research within hydrogen technology at the UiS: presentation of the PhD projects

15:30 – 15:45	Coffee break
15:45 – 17:45	Presentation of group work results and closing remarks // All
18.00	School dinner, Stavanger city centre
Day 5 // Recreational activity	
	Recreational activity, excursion (self-financed) // TBA