

Institute Interest Seminar:

An introduction to steel and hydrogen

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Part of the mission of the Hydrogen Materials Compatibility Division is to find ways to manufacture an alloy that is low cost, high strength and hydrogen-resistant. Higher strength means less material is used on components, which reduces the cost of end products. Since austenitic stainless steels have better resistance to hydrogen, through their crystalline structure and their chemical composition, we aim at increasing their strength about 3-fold.

To enhance the impact of our result, the initial focus will be on explaining the specificities of steels.

The aim of this talk is to promote understanding between research groups by having researchers explain the basics of their fields. In turn, this might promote discussion and ideas for further collaborative research.