

Track 4:

Hydrogen Production: Nuclear

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DESCRIPTION OF THE TRACK

WHEC-2022 is a multidisciplinary international conference hosted by the International Association of Hydrogen Energy. The conference will offer both onsite and online presentations and exhibitions. In this track, authors are cordially invited to submit their extended abstracts in the field of Hydrogen Production: Nuclear. Some key topics are listed here as a guide for the authors. The authors should submit their extended abstracts with a choice for either oral or poster presentations. **The participants of the track will be invited to participate to a hands-on session on assessing the techno-economics of nuclear hydrogen plants.**

KEY TOPICS

(Topics include but not limited to the following)

- Nuclear cogeneration for hydrogen production
- Hydrogen production using current nuclear fleet
- Use of advanced & Generation IV nuclear reactor designs
- Micro & Small Modular Nuclear Reactors for hydrogen production
- Nuclear heat recovery and heat upgrade for hydrogen production
- Thermochemical hydrogen production processes
- Hybrid thermochemical hydrogen production processes
- Electrolysis processes powered by nuclear power plants
- Steam methane reforming coupled to nuclear energy
- Gasification coupled to nuclear energy
- Radiolysis for hydrogen production
- Techno-economics of nuclear hydrogen production
- Licensing of nuclear hydrogen plants
- Challenges in deployment of nuclear hydrogen plants
- Safety of coupling and operation of nuclear hydrogen plants
- Simulation and modeling of coupling nuclear and hydrogen plants
- Nuclear hydrogen production for climate change mitigation
- Sustainability in hydrogen production using nuclear energy

Important Dates

Extended abstract due:

December 15, 2021

Notification of abstract acceptance:

February 15, 2022

WHEC2022 Tracks

- Track 1: Hydrogen Production: Thermochemical and Photonic Methods
- Track 2: Hydrogen Production: Electrolysis
- Track 3: Hydrogen Production: Biological Methods and Biohydrogen
- Track 4: Hydrogen Production: Nuclear
- Track 5: Hydrogen Separation and Purification
- Track 6: Hydrogen Storage
- Track 7: Fuel Cells: PEMFC
- Track 8: Fuel Cells: SOFC and other types
- Track 9: Integrated Hydrogen Energy Systems
- Track 10: Power to Gas
- Track 11: Hydrogen Safety
- Track 12: Codes, Standards and Regulations
- Track 13: Strategies and Policies
- Track 14: Hydrogen Industry, Commercialization and Marketing, Applications
- Track 15: Hydrogen Economy, Logistics, Infrastructure
- Track 16: Environmental Impact and Sustainable Development
- Track 17: Social Dimensions

