

Fluidyn Newsletter - September 2023

Hydrogen - Fuelling the Future with Clean Energy

Upcoming Events:

October 10th-13th
POLLUTEC 2023, LYON

Fluidyn is participating in Pollutec 2023, the largest show on solutions for environment.

November 28th– 30th
WNE—World Nuclear
Exhibition, Paris

Fluidyn is participating in WNE 2023, the world’s leading Civil Nuclear Exhibition.

Early December
Ankleshwar, Gujarat
Organised by GNFC Gujarat.

Dinner Event with Chemical & Petrochemical Industries, followed by 2 days of Training/Interaction sessions by Fluidyn.

Past Events:

September 21st to 25th
Greater Noida, India

Fluidyn and its partner firm Nishkam Technology exhibited in UP International Trade Show 2023, the biggest Sourcing Show in India.

September 20th
DRDO Bhawan, New Delhi

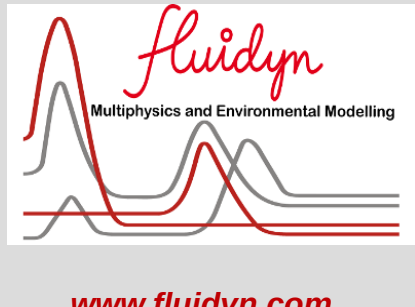
Fluidyn attended a seminar on DGNAI Integrated QA Architecture organised by Indian Navy. Venue: DRDO Bhawan, New Delhi

August 12th
DRDO Jodhpur

Fluidyn Participated in Prof. D S Kothari Memorial Tech Conclave 2023 at DRDO, Jodhpur and presented a poster paper.

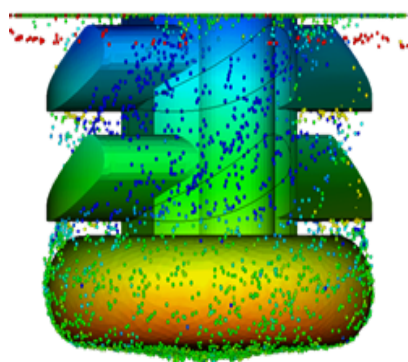
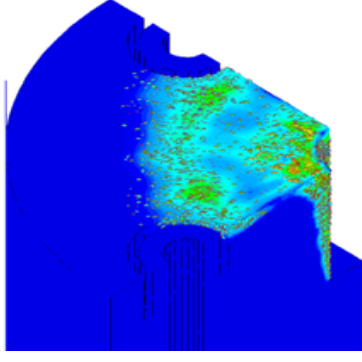
June 27th –28th
ATMOS’FAIR, Paris

Fluidyn was present at the 14th edition of ATMOS’FAIR conference. Fluidyn emphasized on improving air quality in an environment under geopolitical and energy constraints.



Hydrogen, the most abundant and the lightest element, seems to be our saviour from climate disaster. As a renewable energy, it is most uncontroversial and easy to access across the world, as it can be sourced from fossil fuels as grey hydrogen and blue hydrogen by Steam Methane Reforming Process or as green hydrogen by electrolyzing water using surplus electricity from non-fossil energy sources- solar, wind or nuclear.

However it is also prone to start a fire at T° as low as 585°C and explode if oxygen is available aplenty. In many conditions, such as in nuclear reactors, accidents happen when overheated steam may break down in H2 and O2 and recombine again with explosive effects.



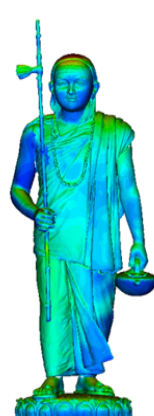
As the utilization of H2 is likely to become common place as a fuel, Fluidyn suite of risk safety simulation software family, Fluidyn-VENTIL, with modules for flammable gas dispersion in complex industrial buildings or vehicles, followed by fire or explosion and their effect on structural integrity as well as on nearby equipment, is consistently used by critical industries in Europe, Japan, China and India. To make sure that no gas, e.g. H2 leak is missed and especially the leak source is identified immediately, the sensor network layout can be designed by Fluidyn-REALTI for fast and reliable detection.

Fluidyn-MP (Multi-Physics) has full 2-phase, including advanced steam condensation and electrochemistry modules. These have been used for modelling of reactors, compressors, heat exchangers, separators. A process specific, design engineer friendly software, with appropriate archiving and AI guidance to retrieve design parameters and prepare the model, may store life cycle data to improve the design or maintenance in future.

Read more

Keeping Adi Shankar cool ... The statue

The great Vedant philosopher Adi Shankar of 8th century was known for debating several days on end without losing his cool. Madhya Pradesh, the Indian state has honoured the great philosopher by inaugurating a 108’ statue - Statue of Oneness, on the banks of Narmada River. Entrusted to us by the engineering giant L&T, we were faced with the challenge of keeping its temperature controlled under a hot summer sun and humidity under wintry conditions.



Fluidyn did the Ventilation Optimization Study and Integrated Thermal Analysis of this statue using Fluidyn-VENTIL. We did the thermal control study to ensure that the temperature of the bronze statute under high summer sun never goes so high that it suffers structural damage.

Read more

MoU Signed with UPL University of Sustainable Technology.



We are immensely glad that the MoU has been signed between FLUIDYN Pvt. Ltd, and UPL University of Sustainable Technology. Under this MOU, Fluidyn will provide the 3D CFD Modelling software (20 users) for academic research, teaching and educating students cost free for one year.



Fluidyn is Exhibiting at Pollutec 2023!

The largest and Major Event dedicated to Environmental and Energy solutions & Innovations.

Meet us at Stand E118 - Hall 4



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