



A Brief Online
Workshop on SPH
October 6, 2023
(8:00 – 11:10 AM UTC)

SPH Online V

Focus Topic: SPH & Industry

*This brief online workshop aims to bring SPH experts and potential future developers together to discuss the latest developments and future perspectives corresponding to **Industrial Applications***

Followed by four previous SPH Online workshops organised during the past three years, we are pleased to announce that the fifth SPH Online workshop, i.e. **SPH Online V**, will be held on **Friday, October 6, 2023**. The focus topic of SPH Online V will be **SPH & Industry**. SPH Online V will be organised jointly by Kyoto University, The University of Manchester, Siemens Digital Industries Software and Dive Solutions. SPH Online is a SPHERIC-affiliated event and we will cordially welcome you to register and participate in this online workshop.

We are honoured to welcome **Dr Jean-Christophe Marongiu** as one of the eminent experts of Computational Mechanics and SPH to kindly deliver the **Keynote Speech** of SPH Online V. We are honoured to welcome **Prof. Prapanch Nair** as one of the reputable experts of Computational Mechanics and SPH to kindly deliver the **Closing Remarks Speech** of the workshop. We will have *five Invited Talks* and a *Panel Discussion* related to the focus topic. Interested researchers who would like to join this online workshop are invited to fill in the following *registration form* by **September 15th, 2023**.

Registration Form:

<https://forms.gle/mZ7rUXhW6jsE75Rm6>

We look forward to welcoming you to SPH Online V.

Sincerely,

Abbas Khayyer, Benedict D. Rogers, Matthieu De Leffe & Pierre Sabrowski
Chairs of SPH Online V

For questions or inquiries please contact:

Abbas Khayyer at khayyer@particle.kuciv.kyoto-u.ac.jp

The workshop is free of charge and all participants will receive the recorded video of the workshop

Programme

Welcome Message by Dr Abbas Khayyer (Kyoto University, Kyoto, Japan)

8:00 – 8:05 UTC

Keynote Speech by Dr Jean-Christophe Marongiu (Pelton Technology Hydraulic Laboratory, ANDRITZ Hydro, Switzerland)

8:05 – 8:35 UTC

“SPH applied to flows in hydraulic turbines”

Invited Talk* 1 by Mr Marian Majda (FIFTY2 Technology GmbH, Germany)

8:35 – 8:55 UTC

“SPH vs. CFD? From sceptics to fans”

Invited Talk 2 by Prof. Peter Eberhard and Ms Elizaveta Shishova (Institute of Engineering and Computational Mechanics, University of Stuttgart, Germany)

8:55 – 9:15 UTC

“Friction Stir Welding Simulation Using SPH”

Coffee Break (9:15 – 9:25 UTC)

Invited Talk 3 by Mr Christof Lüthi (Data-driven & Computational Manufacturing Group, inspire AG, Switzerland)

9:25 – 9:45 UTC

“SPH for Manufacturing Process Simulations: The Good, The Bad, and The Real World”

Invited Talk 4 by Dr Bonaventura Tagliaferro (University of Wisconsin-Madison, USA and the Universitat Politècnica de Catalunya, Spain)

9:45 – 10:05 UTC

“Coupling SPH with multiphysics solvers for engineering applications: WECs and FOWTs”

Invited Talk 5 by Prof. Eung Soo Kim (Department of Nuclear Engineering, Seoul National University, South Korea)

10:05 – 10:25 UTC

“Applications of SPH for Severe Nuclear Accidents”

* Each talk consists of a 15-minute-presentation followed by 5 minutes of discussion

Panel Discussion – Chair: Prof. Benedict D. Rogers (The University of Manchester, United Kingdom), Panel Members: TBA

10:25 – 11:00 UTC

“SPH & Industry – current status and future perspectives”

Closing Remarks by Prof. Prapanch Nair (Indian Institute of Technology Delhi, India)

11:00 – 11:10 UTC

SPH Online Award (Best Presentation Award): TBA

Award Selection Committee: TBA

*SPH Online welcomes
Registered/Invited
Participants.*

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