

The 11th International Symposium on Cavitation
CAV2021

May 10 (Mon) - 13 (Thu), 2021
Daejeon, Korea (Virtual Conference)

Guidelines for Virtual Conference

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Hosted by



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CAV2021 goes virtual!

It is truly unfortunate that we are not able to gather in person in Daejeon, Korea; however, we are nevertheless resolved to continue promoting technical excellence in the cavitation community in a new virtual way. We are embracing the new challenge to make the virtual conference as successful and rewarding as possible.

Keynote speeches and the opening ceremony will be live-streamed to virtual attendees through the online platform. Oral presentations will be made available via pre-recorded videos, giving participants the flexibility to hear all of the presentations at a time that is convenient for them regardless of time zone, extending the value and impact of each presentation. Live discussion will be participated by all presenters following the designated schedule in each virtual room.

As planning evolves, we will make announcements via the website (www.cav2021.org) and will provide more information for virtual participants to enjoy CAV2021 to the fullest.

Please note that only registered participants of CAV2021 will be able to view the virtual content.

Important Dates

Due date: Early Registration	April 10, 2021
Deadline: Presentation Video Submission	April 30, 2021

Pre-registration Deadline

The pre-registration deadline for 11th International Symposium on Cavitation (CAV2021) is April 10, 2021. To register, click [Online registration](#).

Submission of Presentation Video

All presenters must submit their presentation videos on the official website by April 30, 2021. In order to submit the presentation video, the authors are required to complete the registration in advance. Guidelines for 'How to Make a Presentation Video' is available on the official website.

Please note: Submitted pre-recorded presentation video will be available by clicking the "VOD" button on the online platform for one month in May. Please be advised that only the ones who have registered for CAV2021 can access the videos.

Program at a Glance

All programs will make use of an online platform that will open in May.

	May 10 (Mon.)	May 11 (Tue.)	May 12 (Wed.)	May 13 (Thu.)
10:00 PM	CAV2021 Opening, Announcement	Live Discussion	Live Discussion	Live Discussion
		Break (5 min.)	Break (5 min.)	Break (5 min.)
10:30 PM	Keynote Speech I (10:30-11:15 PM, KST)	Keynote Speech II (10:35-11:20 PM, KST)	Keynote Speech III (10:35-11:20 PM, KST)	Keynote Speech IV (10:35-11:20 PM, KST)
11:15 PM	Break (10 min.)	Break (5 min.)	Break (5 min.)	Break (5 min.)
11:25 PM	Live Discussion	Live Discussion	Live Discussion	Live Discussion
11:55 PM	Break (10 min.)	Break (10 min.)	Break (10 min.)	Break (10 min.)
12:05 AM ~	Live Discussion	Live Discussion	Live Discussion	Live Discussion

Opening Ceremony (Zoom, live)

Live Discussion (Zoom, live)

Keynote Speech (Zoom, live)

Oral Presentation (Pre-recorded Video)

※ Subject to change

※ KST = UTC+09:00

Time Zones in many cities during the Symposium

Location	Opening Ceremony / Live Discussion	Keynote Speech	Live Discussion
Daejeon, Korea	10:00 PM	10:30 PM	11:25 PM
London, England	2:00 PM	2:30 PM	3:25 PM
Amsterdam, Netherlands	3:00 PM	3:30 PM	4:25 PM
Copenhagen, Denmark	3:00 PM	3:30 PM	4:25 PM
Madrid, Spain	3:00 PM	3:30 PM	4:25 PM
Stockholm, Sweden	3:00 PM	3:30 PM	4:25 PM
Ankara, Turkey	4:00 PM	4:30 PM	5:25 PM
Kyiv, Ukraine	4:00 PM	4:30 PM	5:25 PM
Moscow, Russia	4:00 PM	4:30 PM	5:25 PM
New Delhi, India	6:30 PM	7:00 PM	7:55 PM
Beijing, China	9:00 PM	9:30 PM	10:25 PM
Tokyo, Japan	10:00 PM	10:30 PM	11:25 PM
Sydney, Australia	11:00 PM	11:30 PM	12:25 AM
Los Angeles, USA	6:00 AM	6:30 AM	7:25 AM
Mexico City, Mexico	8:00 AM	8:30 AM	9:25 AM
Chicago, USA	8:00 AM	8:30 AM	9:25 AM
New York, USA	9:00 AM	9:30 AM	10:25 AM

Advance Program

15 minutes each; playing 10 minutes of pre-recorded presentation video subsequent 5 minutes live discussion (Q&A).

The ten minutes pre-recorded presentation video which will be also available on the online platform will be played before the five minutes live discussion (Q&A). About 15 minutes of every presenter will be recorded by zoom under the authors' prior consent.

Only the registrants of CAV2021 will have the access to the material until the next symposium, CAV2024.

Please refer to the table below, and we will inform you of the detailed presentation schedule by March.

	May 10 (Mon)								May 11 (Tue)								May 12 (Wed)								May 13 (Thu)											
	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8				
22:00	Op									T01-01	T02-05	T03-03	T04-03	T05-01	T06-05	T07-05	T08-05	T01-07	T02-11	T02-12	T03-09	T14-03	T09-07	T07-11	T12-01	T03-15	T02-23	T02-24	T04-09	T05-07	T10-05	T12-07	T09-13			
22:05		P00062	P00052	P00047	P00041	P00011	P00063	P00058	P00080	P00212	P00086	P00104	P00115	P00166	P00199	P00128	P00072	P00171	P00200	P00205	P00105	P00174	P00138	P00148	P00096											
22:10										T01-02	T02-06	T03-04	T04-04	T05-02	T06-06	T07-06	T08-06	T01-08	T02-13	T02-14	T03-10	T14-04	T09-08	T07-12	T12-02	T03-16	T02-25	T02-26	T04-10	T05-08	T10-06	T12-08	T09-14			
22:15		P00100	P00054	P00048	P00061	P00075	P00093	P00077	P00110	P00213	P00111	P00118	P00122	P00194	P00201	P00180	P00076	P00191	P00215	P00221	P00107	P00175	P00023	P00172	P00119											
22:20										Break								Break								Break										
22:25	K_I									K_II									K_III									K_IV								
22:30											Break									Break									Break							
22:35											Break									Break									Break							
22:40											Break									Break									Break							
22:45											Break									Break									Break							
22:50									Break								Break								Break											
22:55									Break								Break								Break											
23:00									Break								Break								Break											
23:05									Break								Break								Break											
23:10									Break								Break								Break											
23:15									Break								Break								Break											
23:20									Break								Break								Break											
23:25	T11-01	T02-01	T13-01	T03-01	T09-01	T06-01	T07-01	T08-01	T01-03	T02-07	T03-05	T04-05	T05-03	T06-07	T07-07	T08-07	T10-01	T02-15	T02-16	T03-11	T14-05	T09-09	T07-13	T12-03	T03-17	T02-27	T02-28	T04-11	T05-09	T10-07	T12-09	T09-15				
23:30	P00070	P00012	P00079	P00013	P00030	P00007	P00018	P00010	P00113	P00055	P00049	P00068	P00132	P00146	P00092	P00112	P00028	P00126	P00150	P00129	P00214	P00202	P00182	P00087	P00204	P00224	P00089	P00117	P00187	P00170	P00173	P00165				
23:35	T11-02	T02-02	T13-02	T03-02	T09-02	T06-02	T07-02	T08-02	T01-04	T02-08	T03-06	T04-06	T05-04	T06-08	T07-08	T08-08	T10-02	T02-17	T02-18	T03-12	T14-06	T09-10	T07-14	T12-04	T03-18	T02-29	T02-30	T04-12	T05-10	T10-08	T12-10	T09-16				
23:40	P00131	P00017	P00097	P00024	P00035	P00009	P00021	P00019	P00121	P00056	P00083	P00073	P00144	P00161	P00095	P00176	P00140	P00157	P00183	P00137	P00188	P00219	P00185	P00108	P00207	P00094	P00103	P00160	P00081	P00220	P00190	P00203				
23:45									Break								Break								Break											
23:50									Break								Break								Break											
23:55									Break								Break								Break											
0:00									Break								Break								Break											
0:05	T11-03	T02-03	T13-03	T04-01	T09-03	T06-03	T07-03	T08-03	T01-05	T02-09	T03-07	T04-07	T05-05	T09-05	T07-09	T14-01	T10-03	T02-19	T02-20	T03-13	T14-07	T09-11	T07-15	T12-05	T03-19	T02-31	T02-32	T04-13			T12-11	T09-17				
0:10	P00195	P00027	P00014	P00016	P00038	P00032	P00036	P00029	P00127	P00059	P00088	P00078	P00153	P00044	P00102	P00143	P00082	P00184	P00189	P00141	P00109	P00223	P00186	P00120	P00210	P00125	P00159	P00198			P00208	P00217				
0:15	T11-04	T02-04	T13-04	T04-02	T09-04	T06-04	T07-04	T08-04	T01-06	T02-10	T03-08	T04-08	T05-06	T09-06	T07-10	T14-02	T10-04	T02-21	T02-22	T03-14		T09-12	T07-16	T12-06	T03-20	T02-33	T02-34									
0:20	P00211	P00031	P00145	P00022	P00040	P00045	P00042	P00033	P00130	P00066	P00098	P00090	P00167	P00084	P00106	P00147	P00135	P00193	P00196	P00155		P00071	P00192	P00139	P00222	P00197	P00216									
0:25									Break								Break								Break											
0:30									Break								Break								Break											

- 01 Nucleation and Inception
- 02 Bubble Dynamics and Bubbly Flows
- 03 Advanced Computational Modeling
- 04 Sheet and Cloud Cavitation
- 05 Tip Vortex Cavitation
- 06 Supercavitation
- 07 Cavitation Erosion
- 08 Cavitation in Marine Propeller
- 09 Cavitation in Fluid Machinery
- 10 Cavitation Induced Noise and Vibration
- 11 Cavitation Control and Suppression
- 12 Cavitation in Biology and Bioengineering
- 13 Sonochemistry and Sonoluminescence
- 14 Advanced Measurement Techniques

Keynote Speeches

Keynote Speech I



Computations of Compressible Cavitating Flows: Numerical Methods and Engineering Applications

Prof. Chongam Kim (Seoul national University, Korea)

May 10, 2021 / 10:30-11:15 PM (KST, UTC+09:00)

Keynote Speech II



Large-eddy Simulation of Turbulent Cavitating Flows

Prof. Krishnan Mahesh (University of Minnesota, USA)

May 11, 2021 / 10:35-11:20 PM (KST, UTC+09:00)

Keynote Speech III



Numerical Prediction of Cavitation Erosion Using a Fully Compressible Fluid Model Including Wave Dynamics in Nanosecond Time Scales

Dr. Steffen Schmidt (Technical University of Munich, Germany)

May 12, 2021 / 10:35-11:20 PM (KST, UTC+09:00)

Keynote Speech IV



Cavitation Instabilities of Pumps: From Linear Analyses to Experimental Observations

Prof. Satoshi Watanabe (Kyushu University, Japan)

May 13, 2021 / 10:35-11:20 PM (KST, UTC+09:00)

Oral Presentation

Oral presentations will be made available via pre-recorded videos, giving participants the flexibility to hear all of the presentations at a time that is convenient for them regardless of time zone, extending the value and impact of each presentation.

Oral Session - 01 Nucleation and Inception

T01_1
Presentation Title
Dr. Abc Defgh, Mr. Xyz Rstuv

[Abstract](#) [Final Paper](#) [VOD](#) [Q&A](#)

※ Sample image of online platform (Subject to change)

Description of each button:

1. **Abstract** to view abstract
2. **Final paper** to view final paper
3. **VOD** to view pre-recorded presentation video
4. **Q&A** is a system in a messenger format for questions and answers

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