

The 11th International Symposium on Cavitation

CAV2021

May 9 - 13, 2021 / DCC, Daejeon, Korea

Important Dates

Abstract Submission	June 30, 2020
Full Paper Submission for Review	November 30, 2020
Final Paper Submission	February 28, 2021
Early Registration	April 10, 2021

Abstract Submission



The 11th International Symposium on Cavitation (CAV2021) will be held during May 9 – 13, 2021 in Daejeon, Korea. The purpose of this Symposium is to provide a forum for sharing advancements in understanding basic physics and applications among the global cavitation community.

The Local Organizing Committee is delighted to support the CAV2021 and to welcome all of you to the city of Daejeon, the most high-tech city in Korea.

Keynote Speakers

Keynote Speech I



Prof. Chongam Kim
Seoul National University, Korea
Computations of Compressible Cavitating Flows: Numerical Methods and Engineering Applications

Keynote Speech II



Prof. Krishnan Mahesh
University of Minnesota, USA
Large-eddy simulation of turbulent cavitating flows

Keynote Speech III



Dr. Steffen Schmidt
Technical University of Munich, Germany
Numerical prediction of cavitation erosion using a fully compressible fluid model including wave dynamics in nanosecond time scales

Keynote Speech IV



Prof. Satoshi Watanabe
Kyushu University, Japan
Cavitation Instabilities of Pumps: From Linear Analyses to Experimental Observations

CAV2021 Topics

Papers containing original works in the following topic areas are solicited:

No	Topics
1	Nucleation and Inception
2	Bubble Dynamics and Bubbly Flows
3	Advanced Computational Modeling
4	Sheet and Cloud Cavitation
5	Tip Vortex Cavitation
6	Supercavitation
7	Cavitation Erosion

No	Topics
8	Cavitation in Marine Propeller
9	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

Program at a Glance

Date	9 May (Sun)	10 May (Mon)	11 May (Tue)	12 May (Wed)	13 May (Thu)
	Day 1	Day 2	Day 3	Day 4	Day 5
Morning	-	Opening & Keynote I	Keynote II	Keynote III	Keynote IV
Afternoon	Registration	Technical Sessions	Technical Sessions	Technical Sessions Technical Tour (KRISO)	Technical Sessions
Evening	Welcome Reception	-	-	Symposium Banquet	

Abstract Preparation

Abstracts must be original material and must not have been presented or published previously. Abstracts should be submitted electronically as a MS Word file through the Symposium website no later than 30 June 2020. Abstract should be within 500 words. All submitted abstracts will be reviewed by the Scientific Committee members, and the results will be communicated to the authors by 31 July 2020.

Registration Fee

Category		Early registration	On-site registration
International	Regular	USD 850.00	USD 950.00
	Student	USD 400.00	USD 450.00
Accompanying Person		USD 200.00	

※ Please keep in mind that registration fee will not refund after April 10, 2021

Local Organizing Committee

Chair

- Shin Hyung Rhee (Seoul National University, KOR)

Co-chairs

- Byoung Kwon Ahn (Chungnam National University, KOR)
- Bugeun Paik (KRISO, KOR)

Organizing Committee Members

- Chongam Kim (Seoul National University, KOR)
- Hyoung Tae Kim (Chungnam National University, KOR)
- Kisup Kim (KRISO, KOR)
- Sang Joon Lee (POSTECH, KOR)
- Hyungmin Park (Seoul National University, KOR)
- Sunho Park (Korea Maritime & Ocean University, KOR)
- Wangyu Park (Pusan National University, KOR)
- Seungwon Shin (Hongik University, KOR)
- Gihun Son (Sogang University, KOR)
- Seungjin Song (Seoul National University, KOR)
- Jung Chun Suh (Seoul National University, KOR)

Scientific Committee

Governing Board (*)

- Byoung Kwon Ahn (Chungnam National University, KOR)
- Keita Ando (Keio University, JPN)
- Roger Arndt (University of Minnesota, USA)*
- Scott Black (Naval Surface Warfare Center-Carderock Division, USA)
- Paul Brandner (University of Tasmania, AUS)
- Christopher Earls Brennen (California Institute of Technology, USA)
- Steve Ceccio (University of Michigan, USA)*
- Georges L. Chahine (Dynaflow Inc., USA)
- Tim Colonius (California Institute of Technology, USA)*
- Olivier Coutier-Delgosha (Virginia Tech, USA)
- Mohamed Farhat (École Polytechnique Fédérale de Lausanne, CHE)*
- John E. Field (University of Cambridge, GBR)
- Manolis Gavaises (City University of London, GBR)
- Akira Goto (Ebara Corporation, JPN)*
- Eric Johnsen (University of Michigan, USA)
- Hiroharu Kato (University of Tokyo, JPN)*
- Joseph Katz (Johns Hopkins University, USA)*
- Valery K. Kedrinskii (Lavrentyev Institute of Hydrodynamics, RUS)
- Ki-Han Kim (Office of Naval Research, USA)
- Spyros Kinnas (University of Texas, USA)
- Ivan Kirschner (Applied Physical Sciences Corporation, USA)
- Shuhong Liu (Tsinghua University, CHN)
- Detlef Lohse (University of Twente, NLD)
- Krishnan Mahesh (University of Minnesota, USA)
- Moustafa Abdel-Maksoud (Hamburg University of Technology, GER)
- Yoichiro Matsumoto (Tokyo University of Science, JPN)*
- Knud Aage Mørch (Technical University of Denmark, DNK)
- Claus-Dieter Ohl (Otto-von-Guericke University, GER)*
- Peter Pelz (Technische Universität Darmstadt, GER)
- Xiaoxing Peng (China Ship Scientific Research Center, CHN)
- Andrea Prosperetti (University of Houston, USA)
- Steffen Schmidt (Technische Universität München, GER)
- Vladimir Serebryakov (Ukrainian National Academy of Science, UKR)
- William A. Straka (Pennsylvania State University, USA)
- Eleanor Stride (University of Oxford, GBR)
- Shu Takagi (University of Tokyo, JPN)*
- Tom van Terwisga (MARIN, NLD)*
- Yoshinobu Tsujimoto (Osaka University, JPN)*
- Satoshi Watanabe (Kyushu University, JPN)

Hosted & Organized by



The Society of Naval Architects of Korea (SNACK)



Seoul National University (SNU)

Venue City 'Daejeon'



Daejeon, the venue city, is a top science and technology city with 70 research institutes and 1,300 high-tech companies. Daejeon has 18 universities, including KAIST and Chungnam National University. Daejeon has earned its name as "Asia's Silicon Valley" and "high technology city".