



# ICDBC-2020

The second International Concrete  
Dragon Boat Competition(Remote)

Zhejiang University  
Haining-China  
2020.10.17



浙江大學  
ZHEJIANG UNIVERSITY



American Concrete Institute  
Always advancing



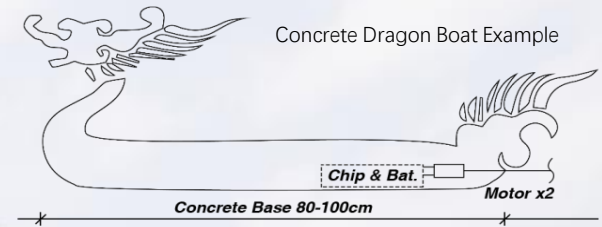
## Introduction

Concrete is one of the most important modern materials. In order to reflect the cutting-edge progress of concrete research and technology, encourage students for innovation, cross-disciplinary and creative thinking, the 2020 International Concrete Dragon Boat Remote Competition (ICDBC-2020) will be organized on the October 17<sup>th</sup>, 2020, in Haining, Zhejiang, China. The competition promotes professionalism, technology, sportsmanship, entertainment, and synergy. In particular, the event is of great significance to combine cultural heritage inheritance with the study of modern science and technology, as well as cross-culture communication and collaboration. The competition is organized by Zhejiang University, Zhejiang University- University of Illinois Institute and cosponsored by American Concrete Institute (ACI) and other organizations.



## Rules

Participants are required to remote control the concrete model dragon boat during speed racing. A full-scale concrete dragon boat exhibition is also planned. The boat body should be 80cm~100cm in length, and the main material should be cement mortar with steel or composite fiber reinforcement. Implementation of advanced technologies, such as 3D printing, is highly encouraged. Each participating team should design and manufacture its own boat in advance according to specifications (see detailed rules), and send the boat to the site for testing and competition. The final score will be judged based on fabrication and technical report (25%); sample testing (15%), artistic expression (10%); racing and maneuver competition (50%), dragon boat CFD simulation analysis (extra up to 6%) .



**Date:** October 17<sup>th</sup>, 2020

**Venue:** Zhejiang University, International Campus, Haining, Zhejiang, China

**Cost:** Registration is free; participants are responsible for their own expenses.

**Organizer:** Zhejiang University, ZJUI

**Co-sponsors:** ACI, and others TBC

**Co-organizers:** Tsinghua University, Tongji University, Tianjin University, Harbin Institute of Technology, Southeast University, Hohai University, Shanghai Jiaotong University, Nanjing Tech University, Hunan University, Central South University, Xi'an University of Architecture and Technology, University of Illinois at Urbana-Champaign, University of Southern California, Guangxi University, Southwest Jiaotong University, South China University of Technology, Shenyang Jianzhu University, etc.

**Honorary Advisers:** Academicians Dong S.L., Nie J.G. and Teng J.G.

**Honorary Guidance:** Chinese Society of Engineering Education (CSEE), Civil Engineering Education Committee (Chair, Li G.Q., Coordinator, Zhao, X.Z.)

**Technical Committee:** Chen J.F., Deng L., Feng P., Fu H.Y., Gao Y.F., Han Q.H., Huang B.F., Lange D.A., Li G.C., Monti G., Shan B., Shi Q.X., Spencer B., Wang J.Q., Wang J., Wu B., Wu, Y., Xiao Y. (Chair), Xiong, H.B., Yi, T.H., Zhao J.C., Zhao Y.X. (co-Chair), et al.

**Organizing Committee:** C. Demartino, Hu S.J., Li B.B., Li Z., Wang R., Wu H., Xie Y.L., Zhu T.J.

**Sign-up and Contact:** Secretariat of ICDBC-2020

Website: <https://www.concretedragon.org>

Email: [concretedragon@intl.zju.edu.cn](mailto:concretedragon@intl.zju.edu.cn)

Tel.: (86) 571-8757 2532

Signup registration deadline is July 17, 2020. However, due to the logistic capacity, the total number of competition teams will be subjected to certain upper limit.