Name of organization IIHR – HYDROSCIENCE & ENGINEERING (Univ	Year of information updating 2020
•	
<b>Year established</b> 847	<b>Year of joining the ITTC</b> 1994 or earlier
Address	Status in the ITTC
300 S. Riverside Drive Iowa City, IA 52242	Member
Contact details (phone, fax, e-mail) Troy Lyons, Director of Engineering Services troy-lyons@uiowa.edu, 319-335-5319	Website <a href="https://www.iihr.uiowa.edu/">https://www.iihr.uiowa.edu/</a>
Type of facility Environmental Flume	Year constructed/upgraded ~1990
Name of facility	
Name of facility IHR Environmental Flume	Location (if different from the above address)
	est section; for simulators: full mission, part task or desk top)
Sharastonosios (amonorono or tampasin/te	cor coording, for official areas of the first transfer of the control of the cont
Nominal dimensions of the test section are	e 10 ft wide x 7.5 ft deep by 63 ft long
<ul> <li>Two 50 HP pumps with VFD drives to pro-</li> </ul>	
<ul> <li>Glass sidewalls for flow visualization</li> </ul>	
Drawings of facility	
See attachment.	
see allaciinent.	

## Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)

- Fine mesh screens for low-turbulence testing.
- Sediment testing capability.
- Overhead lifting crane.
- 1D, 2D, and 3D laser doppler velocimetry (LDV).
- Particle image velocimetry (PIV).
- Acoustic doppler velocimetry (ADV).
- Pressure transducers, load cells, water level sensors.

## Applications (Tests performed)

Basic research studies.

## Examples of testing:

- Spillway gate operations and flow ratings.
- Stilling basin performance optimization.
- Scour around bridge piers and abutments.
- PMF scour potential downstream of spillways.
- · Flow balancing of fine mesh screens.
- Vibration analysis of fish exclusion screens.
- · Vortex shedding analysis from ships.

Published description (Publications on this facility)





