

**THE ENVIRONMENTAL AND WATER RESOURCES INSTITUTE  
OF THE  
AMERICAN SOCIETY OF CIVIL ENGINEERS  
PRESENTS THIS CERTIFICATE TO**

**LINLONG BIAN**

*in recognition of First Place in the Graduate Student Paper Competition, for the paper*

**A FEASIBILITY STUDY ON HARVESTING RAINWATER FROM LARGE SOLAR PANEL CANOPIES TO  
SUPPLEMENT MAKEUP WATER FOR COOLING TOWERS BY USING REMOTELY CONTROLLED AND  
SELF-CLEANING RAIN CISTERN**

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**ENVIRONMENTAL &  
WATER RESOURCES  
INSTITUTE**

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A handwritten signature in blue ink that reads "Deborah H. Lee".

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Deborah H. Lee, P.E., D.WRE, F.ASCE  
2021 EWRI President

A handwritten signature in blue ink that reads "Brian K. Parsons".

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Brian K. Parsons, M.ASCE  
Managing Director, EWRI

*Presented this 7th day of June 2021*