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PROFESSIONAL ACTIVITIES

Japan Society of Refrigerating and Air Conditioning Engineers, Member

Japan Society of Mechanical Engineers, Member

The Society of Heating, Air-conditioning and Sanitary Engineers of Japan, Member

Japan Society of Mechanical Engineers, 4th committee of environmental engineering, Member

Japan Society of Mechanical Engineers, Public Relations Committee of Environmental Engineering Division, Chairman 2016

Japan Society of Mechanical Engineers, News Letter Editorial Board of committee of environmental engineering, 2013 - 2016

Planning committee member of engineers workshops of Japan Society of Refrigerating and Air Conditioning Engineers

Japan Society of Mechanical Engineers, International Workshop on Environment & Engineering, and Environmental Engineering Symposium, Organizer

Japan Society of Refrigerating and Air Conditioning Engineers, Road map committee leader, 2020~

Japan Society of Refrigerating and Air Conditioning Engineers, Natural refrigerant air-conditioning system technical committee, Coordinator

Oversea advisory of manufacturing based system field of Korea Ministry of Knowledge Economy

RESEARCH ACTIVITIES

Efficient control method and optimization of single and double effect combined system

Refrigerant distribution in microchannel heat exchanger having headers

Characteristic analysis of heat transportation system by CO₂ Natural and forced circulation for refrigerant rack spot cooling

Heat transfer enhancement of indirect evaporative cooler

Performance analysis of desiccant dehumidification systems driven by low-grade heat source

Performance analysis hybrid refrigerator (combination of gas engine, compression and absorption type refrigerator)

Miniaturization of CO₂ heat pump using microchannel heat exchanger

Optimum system and operation for smart energy house

FELLOWSHIPS AND AWARDS

Japan Society of Mechanical Engineers, environmental symposium conference best paper award (2018.7)

Best paper award of SAREK 2010 annual meeting

Best presentation award of engineer workshops 2008 of Japan Society of Refrigerating and Air Conditioning Engineers

Best presentation award, Korea society of refrigeration and air-conditioning 2014 annual conference

