



ICR2015 Workshop [WS9-Th-3/WS9-Th-4]

“Risk Assessment of Mildly Flammable Refrigerants”

Hosted by New Energy and Industrial Technology Development Organization (NEDO)

Thursday, August 20, 2015

Room304, Conference Center 3rd Floor, Pacifico Yokohama

WS Program

【Session 1】 “Research Project on Risk Assessment of Mildly Flammable Refrigerants”

Chair: Satoru FUJIMOTO, (JRAIA, Sub Project Leader of NEDO-Project)

No.	Time Distribution	Title		Speaker
1.1	13:30~13:33	Opening Remarks		<i>Munehiko TSUCHIYA</i> Executive Director, NEDO
1.2	13:33~13:38	Introduction	Overview of the NEDO-Project - Technology Development of High-efficiency Non-fluorinated Air-conditioning Systems -	<i>Mika SUZAWA</i> Chief Officer, NEDO
1.3	13:38~13:43	Introduction	Research Project on Risk Assessment of Mildly Flammable Refrigerants	<i>Eiji HIHARA</i> Professor, The University of Tokyo Project Leader of NEDO-PJ
1.4	13:43~14:03	Presentation	Fundamental and Practical Flammability Properties of 2L Refrigerants	<i>Kenji TAKIZAWA</i> Senior Researcher, AIST
1.5	14:03~14:23	Presentation	Hazard assessment of the combustion of mildly flammable refrigerants	<i>Tei SABURI</i> Senior Researcher, AIST
1.6	14:23~14:43	Presentation	Experimental Evaluation of Physical Hazard of A2L Refrigerant Assuming Actual Handling Situations	<i>Tomohiko IMAMURA</i> Junior Associate Professor, Tokyo University of Science, Suwa
1.7	14:43~14:58	Presentation	Diesel Combustion of Oil and Refrigerant Mixture during Pump Down of Air Conditioners	<i>Chaobin DANG</i> Associate Professor, The University of Tokyo
1.8	14:58~15:10	Discussion		

15:10~15:30 Coffee Break

(continued overleaf)



【Session 2】 “Risk Assessment of Mildly Flammable Refrigerants”

Chair: *Eiji HIHARA*, (The University of Tokyo, Project Leader of NEDO-Project)

No.	Time Distribution	Title		Speaker
2.1	15:30~15:40	Introduction	Basic Procedure of the Risk Assessment in JRAIA	<i>Satoru FUJIMOTO</i> JRAIA, Sub Project Leader of NEDO-PJ (Daikin Industries, Ltd.)
2.2	15:40~15:55	Presentation	(Risk Assessment in JRAIA) Overview of the Risk Assessment for Residential Air-Conditioners	<i>Kenji TAKAICHI</i> JRAIA, (Panasonic Corporation)
2.3	15:55~16:10	Presentation	(Risk Assessment in JRAIA) Overview of the Risk Assessment for VRF System	<i>Ryuzaburo YAJIMA</i> JRAIA, (Daikin Industries, Ltd.)
2.4	16:10~16:25	Presentation	(Risk Assessment in JRAIA) Overview of the Risk Assessment for Chiller	<i>Kenji UEDA</i> JRAIA, (Mitsubishi Heavy Industries, Ltd.)
2.5	16:25~16:40	Presentation	Overview of AHRI Risk Assessment Studies for A2L Refrigerants	<i>Xudong WANG</i> Ph.D, Air-Conditioning, Heating, and Refrigeration Institute(AHRI)
2.6	16:40~16:55	Presentation	Research on Flammability of the lower GWP refrigerants	<i>Zhao YANG</i> Professor, Tianjin University
2.7	16:55~17:10	Discussion		

Downloadable internet address of the distribution document

•Risk Assessment of Mildly Flammable Refrigerants 2014 Progress Report

- (English) http://www.jsrae.or.jp/committee/binensei/2014PR_e.pdf
http://www.jsrae.or.jp/committee/binensei/2014PR_e_ab.pdf (Abstract)
 (Japanese) http://www.jsrae.or.jp/committee/binensei/2014PR_j.pdf
http://www.jsrae.or.jp/committee/binensei/2014PR_j_ab.pdf (Abstract)

•Fluorinated Reduction Technologies 2014 —Toward the Prevention of Global Warming—

- (English) http://www.nedo.go.jp/library/pamphlets/EV_201403_flon_en.html
 (Japanese) http://www.nedo.go.jp/library/pamphlets/EV_201403_flon_jp.html

•Profile of NEDO 2015

- (English) http://www.nedo.go.jp/library/pamphlets/KH_201508_en_goannai.html
 (Japanese) http://www.nedo.go.jp/library/pamphlets/KH_201504_goannai.html

•NEDO 環境分野の取り組み 2014

- (Japanese) http://www.nedo.go.jp/library/pamphlets/EV_201501_kankyo.html

Notes

- AIST: National Institute of Advanced Industrial Science and Technology
- JRAIA: The Japan Refrigeration and Air Conditioning Industry Association
- NEDO: New Energy and Industrial Technology Development Organization