Draft Program 24thAnnual Meeting of the Society of Packaging Science & Technology, Japan

Venue: Yayoi Auditorium, Faculty of Agriculture, University of Tokyo July 2, 2015 Day One Morning Program Yayoi Auditorium 9:00 ~ Hall Opens, Registration, Poster Preparation (Seihoku Gallery) Yayoi Auditorium Ichijo Hall 9:50~10:00 Opening Comments 10:00~10:50 D, E Poster Sessions Outline Presentations 10:50~11:00 Break 11:00~12:20 Session B1 Functional Materials b-01 Effect of heat shrinkage of film on weep production in vacuum packed fresh meet KUREHA Corporation Food Packaging Technology Center OKayoko Onizawa, Mikio Tanaka, Kazuhiko Hirose b-02 Development of Packaging Materials on Content Resistance Characteristic Dai Nippon Printing Co., Ltd. O Yuya Takasugi b-03 Development and Application Effect of Renovated Oxygen Scavenger Packaging Material in Dry Condition OAkihiro Masuda, Takayoshi Itoh, Ryuichiro Kawai, Mitsubishi Gas Chemical Company, Inc. Daiki Sato, Kenichi Niimi b-04 Application of stretched film for skin pack KUREHA Corporation Food Packaging Technology Center OShota Nambu, Junji Nakajima, Ichiro Kitada, Tadayoshi Ito Seihoku Gallery 11:00~12:20 Session E Poster Transport Packaging e-01 Vibration measurement of truck in Southeast Asia SHINYEI TESTING MACHINERY CO., LTD. Kazuaki Kawaguchi e-02 Number of vibration measurement times for random vibration test SHINYEI TESTING MACHINERY CO., LTD. OTomohiro Kuroda, Kazuaki Kawaguchi e-03 Practice and Assessment of Packing and Transport of cultural properties Tokyo National Museum OHiroshi Wada

| e-04 | Prevent of Secondary Damage Caused by Absorbe | nt Sheets in Cargo Container | | |
|---------|---|--|--|--|
| | National Institute of Technology, Yuge College | ○Koji Yoshida, Tomohiro Murakami, Shingo | | |
| | | Ikeda | | |
| e-05 | Influence of Physical Modeling to Precision of Hybrid Free Fall Test | | | |
| | Kobe University O Meishu PIAO, Katsuhiko Saito | | | |
| | Kyocera Document Solutions Co.,LTD. Hi | roshi Setoue | | |
| | SHINYEI TESTING MACHINERY CO., LTD. | Kazuaki Kawaguchi | | |
| e-06 | Influence of Moisture Content Ratio of Corrugated Board to Box Compression Speed in Stacking Load | | | |
| | Kobe University OHidemi Hirokaw | a, Katsuhiko Saito | | |
| | Rengo Co. LTD Akira Higashiyama | | | |
| e-07 | Simulated Vibration Test of Corrugated Box Abrasion Damage | | | |
| | Kobe University OChinami Sawada, | Katsuhiko Saito | | |
| | Rengo Co. LTD Akira Higashiyama | | | |
| e-08 | Estimation for Axis of Rolling of A moving Truck | Estimation for Axis of Rolling of A moving Truck under different Load Conditions by Detection of | | |
| | 3-D Center of Gravity | | | |
| | Tokyo University of Marine Science and Technol | ogy Oang Runan, Yutaka Watanabe | | |
| e-09 | An efficient Algorithm of stacking Marine Container | s in Container Terminals | | |
| | Tokyo University of Marine Science and Technological | gy ONing Zhang, Yutaka Watanabe | | |
| | Hitachi Transport System, Ltd. | Ying Cong | | |
| e-10 | Lashing Design System for Marine and Terrestrial Tra | nsport | | |
| | Sankyu Inc. | O Masahiro Ito, Masanobu Eguchi | | |
| | | | | |
| e-11 | Digital Tensiometer for Transport Cargo Lashing Belts | ; | | |
| | Sankyu Inc. | ○Haruki Shikashi, Masanobu Eguch | | |
| | | | | |
| 12:20~ | 13:30 Lunch | | | |
| | | | | |
| July 2, | 2015 Day One Afternoon Program | | | |
| Yayoi A | Auditorium Ichijo Hall | | | |
| 13:30~ | 14:50 Session A 1 Transport Packaging | | | |
| a-01 | Measurement and analysis of shock and vibration of | during cargo handling operation in the airport | | |
| | eXcearch Corporation OMasa | hiro Takagi | | |
| | Nippon Cargo Airlines Co., Ltd. Kazuta | ka Toyama | | |

| | Morimatsu Sangyou Co., Ltd. Nagateru Morimatsu | | |
|---------|---|--|--|
| a-02 | A calculation method of an order number in statistical analysis of a result including two kinds of | | |
| | incomplete data. | | |
| | Technology Research Institute of Osaka Prefecture OShogo Horiguchi, Takamasa Nakajima | | |
| a-03 | The effect of Shock and Vibration in Transportation of fruits and vegetables part 8 Vibration control | | |
| | measures of cargo | | |
| | National Federation of Agricultural Co-operative Associations (ZEN-NOH) | | |
| | ○Hiroshi Uchida, Takashi Inoue | | |
| | Kanagawa Industrial Technology Center Yoshiaki Itoh, Masamichi Kojima | | |
| a-04 | Investigation of the Relation between the Compression Strength and the Role of the Part of the Corrugated | | |
| | Box | | |
| | Oji Industrial Materials Management Co., Ltd. OMitsuru Shimomura | | |
| | | | |
| Seihoku | Gallery | | |
| 13:30~1 | 4:50 Session D Poster Functional materials, etc. | | |
| d-01 | Freshness-keeping packaging of Chinese chives corresponding to the vacuum precooling | | |
| | Oita Industrial Research Institute | | |
| | Omori Machinery Co., Ltd. Shoichi Tsuchida | | |
| d-02 | Usability evaluation of drug packages for oral tablet | | |
| | Yokohama University of Pharmacy OMasaru Mizoguchi , Mikio Murata , Kiyomi Sadamoto | | |
| d-03 | Visualization study on the Oxygen and Odor barrier functions of the freezing bag "Oishisa-Keep" | | |
| | KUREHA Corporation Technical Department Plastics processing Factory OAkiko Omori, | | |
| | Yusuke Sato, Tomonori Hosoda | | |
| d-04 | Development of tear tape design for chub package | | |
| | KUREHA Corporation Food Packaging Technology Center | | |
| | Akiko Omori, Mikio Tanaka | | |
| d-05 | Measurement of specific heat capacity of paper | | |
| | Kyoto University Grad School of Agri. OTatsuo Yamauchi | | |
| d-06 | The effect of modified atmosphere and different temperatures on the respiratory enzymatic activity of | | |
| | broccoli | | |
| | The University of Tokyo | | |
| | Oshita Seiichi, Noguchi Ko | | |
| d-07 | Development of the packaging material with printed invisible identification codes. | | |

| | UACJ Corp | ○Hiroshi Nishi | o, Yukie | Kitada | |
|-------------|--|----------------------|------------|------------------------|--------------------|
| | Think Laboratory Co.,Ltd | Kaku Shigeta | , Eiji Tak | ahashi, Tomoko Mura | ıta |
| d-08 | Water-organic solvent permeation prop | perties of poly (la | ctic acid) | film | |
| | School of Science and Technology, N | Meiji University | | ○Ryo Iida, Tomoki | Yonezu, |
| | | | | Yasuaki Shinkawa, | Kazukiyo Nagai |
| d-09 | Development of bio-based film derive | ed from cinnamio | c acid ar | nd application of bar | rrier materials by |
| | cross-linking reaction | | | | |
| | School of Science and Technology, Mo | eiji University | ODaichi | Watabe, Shohei Itam | ni, Miho |
| | | | Kobayas | shi, Shinji Kanehashi, | Kazukiyo Nagai |
| d-10 | Preparation of organic-inorganic hybrid | d gas barrier mem | branes us | sing cellulose | |
| | Graduate School of Maritime Sci | ences, Kobe Ur | niversity | ○ Tomomi Iwasak | i, Koji Kuraoka |
| | ARAKAWA CHEMICAL INDUSTRI | ES, LTD. | Yuki | yasu Nishioka, Masa | nori Kobayashi, |
| | | | Hid | leharu Takeuchi | |
| d-11 | New opening method of operating force | e twice heat sealing | ng streng | th in bag packaging | |
| | Hishinuma Consulting Engineering C | office | | Kazuo Hishinuma | |
| d-12 | Preparation of organic-inorganic hybrid | d gas barrier films | disperse | d layered compound | |
| | Graduate School of Maritime Science | s, Kobe Univers | ity (| Tomohiro Haratani, | Koji Kuraoka |
| d-13 | The evaluation of disintegration at the waste multipack paper for can beer | | | | |
| | Rengo Co.,Ltd | | С | Mariko Sugane, Ken | ichi Ito |
| d-14 | Development of acid type polymer wit | h easy purging an | d excelle | nt adhesion property | |
| | DuPont-Mitsui Polychemicals Co., L | td | | ○Koichi Nishijima, | Nobuyuki Maki |
| 14:50~15:2 | 0 Break | | | | |
| Yayoi Audi | torium Ichijo Hall | | | | |
| 15:20~17:20 | 0 IPS'15 | | | | |
| New Bioma | ass Derived Materials and Applications for | or Agricultural Pro | oduct and | Food Packaging | |
| 1) Renewab | ole polymers for barrier functions in pack | ages | | | |
| ODr. Mika | el Gällstedt, Innventia-Packaging Soluti | ons (Sweden) | | | |
| 2) Biobased | l and Biodegradable Polymer Developme | ent for Packaging | Applicati | on in Thailand | |
| ODr. Somn | nai Pivsa-Art, Rajamangala University o | f Technology Tha | nyaburi | (Thailand) | |
| 3) Current | trends and issues of Biomass Derived | materials | | | |

ODr. Kazufumi Osima, Japan Bioindustry Association (Japan)

17:20~17:30 Break

17:30~17:50 Panel Discussion

Yayoi Auditorium Lobby

18:00~ Reception

July 3, 2015 Day Two Morning Program

Yayoi Auditorium Ichijo Hall

8:50~ Hall Opens

9:00~10:00 General Meeting

10:00~10:10 Break

10:10~10:30 Society of Packaging Science & Technology, Young Researcher Award Presentation

10:30~10:50 Society of Packaging Science & Technology, Paper Award Presentation

10:50~11:00 Break

11:00~12:00 Session B2 Functional Materials

b-05 Light-weighting of large beverage PET bottles with enhanced usability

Research laboratories for Packaging Technologies Kirin Company, Limited

ODaisuke Koike, Yohei Yamaguchi, Yuuki Arai

Technology Development Dept. Kirin Beverage Company, Limited Takanori Nishijima

Technology Development Center Kirin Brewery Company, Limited Shuichi Hanada

b-06 Quality retention effect of foods in active barrier packaging

b-07 Development of liquid sachets with ethylene type ionomer

Du Pont-Mitsui Polychemicals Co., Ltd OHidenori Hashimoto, Nobuyuki Maki

Seihoku Gallery

11:00~15:00 Poster Viewing

12:00~13:20 Lunch

July 3, 2015 Day Two Afternoon Program

Yayoi Auditorium Ichijo Hall

| 13:20~14:20 Session A2 Transport Packaging | | | |
|--|---|---------------------------|----------------------------|
| a-05 Correlation Analysis of Vehicle Vibration for Non-Stationary Vibration Test | | | |
| | Technology Research Institute of Osaka Prefectur | re | OAkira Hosoyama |
| a-06 | A method for estimating logistics environment from | generally available indic | cators and indexes |
| | Japan National Mirror Committee to ISO/TC 122 / | SC 3 | OMasahiro Takagi |
| | Japan Packaging Institute | | |
| a-07 | Relationship between drop height and number of sp | ecimens on drop tests | |
| | Technology Research Institute of Osaka Prefectur | re | ○Takamasa Nakajima |
| 14:20~14:30 |) Break | | |
| 14:30~15:50 | O Session F1 Processing, Design, Safety, Environme | ent | |
| f-01 | Development of melting surface temperature respons | se model in impulse hea | at sealing |
| | Toyo College of Food Technology | ○Tamotsu Inoue, Da | iki Sakane, Tsuyoshi Siono |
| f-02 | Effect of annealing conditions on shrinkage behavior | r and structure of PVDC | C film |
| | KUREHA Corporation Plastics Processing Factory | √ ○Masanori Shitsukawa | a, Tomonori Hosoda, |
| | | Yuji Minegishi, Hite | oshi Ujiie |
| | KUREHA Corporation Food Packaging Technolog | y Center Kaz | zuhiko Hirose |
| f-03 | Numerical Analysis for Seaming Process | | |
| | Mitsubishi Materials Co., Ltd | ORyo Muranaka | |
| | Nippon Institute of Technology | Hideo Takizawa | |
| | Universal Can Co., Ltd | Taizo Ishikawa | |
| f-04 | International comparative analysis of packaging | | |
| | Graduate School of Economics, Kobe University | y ORisa Kojii | ma, Masanobu Ishikawa |
| 15:50~16:00 |) Break | | |
| 16:00~17:00 | O Session F2 Processing, Design, Safety, Environme | nt | |
| f-05 | Analysis of crushing characteristics of wedge blade | during continuous cuttin | g of raw fiberboards |
| | Nagaoka University of Technology | ONagasawa Shi | igeru, Oyake Takuya |
| | Rengo Co. Ltd | Kajizuka Takash | ni |
| f-06 | Film interface temperature analysis in the rapid ther | mal conduction | |
| | Yamagata University Graduate School of Science a | and Engineering OKer | n Miyata, Masahiro Kamiya |
| | | Tome | onori Koda, Taichi Nishio, |
| | | Akih | niro Nishioka |
| f-07 | Simulation study on cutting performance of the house | sehold wrap carton | |

○Seishiro Kobayashi, Naoki Ueda,

KUREHA Corporation

| Building 2 | Classroom 3 | | |
|--|--|---|--|
| 13:20~14:2 | 20 Session B3 Functional Materials | | |
| b-08 | A study on a relation between shape and expansion of a plastic bottle for carbonated | | |
| | Dai Nippon Printing Co.,Ltd | nehara, Kazuya Hirose, Akitomo Sekine, | |
| | Takuma | Miyawaki, Katsunobu Ito | |
| b-09 | Influence of the inorganic particles on the impact resistance | e of the PVDC film | |
| | KUREHA Corporation Food Packaging Technology Ce | enter OYuzo Ishii, Kenichi Masuda | |
| | | Jyunji Nakajima | |
| b-10 | Development of new technology for heat sealing that unite | es Easy Open to Perfect Sealing. | |
| | Hishinuma Consulting Engineering Office | ○Kazuo Hishinuma | |
| | | | |
| | 14:20~14:30 Break | | |
| 14:30~15:5 | 60 Session B4 Functional Materials | | |
| b-11 | Development of Non Adsorption Packaging Materials | | |
| | Dai Nippon Printing Co., Ltd. OSyouhei Okumu | ra, Masato Yuno, Shin Yamada, | |
| | Katsunobu Ito | | |
| b-12 | Structure analysis and temperature sensitive barrier p | roperty of clay/poly(N-isopropylacrylamide) | |
| | nanocomposite membrane | | |
| | National Institute of Technology, Yuge college | OShingo Ikeda, Tomohiro Murakami | |
| | Kobe University Graduate School of Maritime Sciences | Koji Kuraoka | |
| b-13 | Heat seal properties and dynamic mechanical analysis of biodegradable polymer blends and composite | | |
| | films | | |
| Kyoto Institute of Technology Supaphorn Thumsorn, Kazushi Yamada, Hiroyuki Ham | | msorn, Kazushi Yamada, Hiroyuki Hamada | |
| | Rajamangala University of Technology Thanyaburi | Sommai Pivsa-Art | |
| | Yamagata University | Ken Miyata | |
| 15:50~16:0 | 00 Break | | |
| 16:00~17:0 | 00 Session B5 Functional Materials | | |
| b-15 | Method of moisture-proof packaging for ice cream cone | | |
| | Shimizu Professional Engineer Office | OKeisuke Shimizu | |
| b-16 | Biomaterial barrier materials | | |

| | Kuraray Co., LTD. | ORyoichi Wa | ada, Nick McCaffrey, Yuki Morino |
|-------------|---|-----------------|----------------------------------|
| b-17 | Preparation and properties of organic-inorganic hybrid gas barrier membranes using polysilsesquioxa | | |
| | Graduate School of Maritime Sciences, | Kobe University | ○Yuta Shimmen, Koji Kuraoka |
| | Toray Fine Chemicals Co., Ltd. | | Takeshi Nishikawa, Hiroyasu Seki |
| 17:00~17:10 | Closing | | |